INDEX TO VOLUME 32 SUBJECTS1

ABDOMEN

Abdominal roentgenography, Use of prostigmin as preparation for (ab.), M. J. Farrell, Jan., 123.
Diagnosis of unusual calcareous shadows found on x-ray films of abdomen, C. B. Rose, May, 600.
Retroperitoneal cyst with agenesia of kidney, K. Kornblum and J. A. Ritter, April, 416.

ABNORMALITIES AND DEFORMITIES
Hip joint in children, Deformities of (ab.), C. G. Teall, March, 374.
Os centrale of wrist (ab.), R. O. Tanguy, March, 390.
Vertebral articular apophyses, Anomalies of (ab.), F. Willemin and M. Cantagrill, April, 517.

ACROCEPHALY
Pneumatization of facial bones in Comming the control of the control o

ACROCEPHALY
Pneumatization of facial bones in Crouzon's disease, Apert's disease, and oxycephaly (ab.), P. de Gunten, March, 384.
ADAMANTINOMA. See Tumors, adamantinoma.
ADENOMA. See Tumors, adenoma.
ADOLESCENCE

Adolescent tibia vara, J. A. Siegling and J. B. Gillespie, April, 483.

April, 483.

Heart at puberty, Size, variability, and correlation of (ab.),
G. Marzocchi, Feb., 259.

Hypogonadism, Bone changes in primary, L. M. Hurxthal and H. F. Hare, May, 521.

AMBHASIS

EBIASIS

Amebic infections of large bowel, Further consideration of roentgen-ray manifestations in, J. C. Bell, March, 332.

Chronic intestinal amebiasis, Diagnosis of (ab.), M. Poirot, March, 376.

ANEMIA

Stenoses and false stenoses of intestine in course of grave anemias (ab.), J.-C. Roux and J. Mialaret, Jan., 117.

Thalassanemia (ab.), E. S. Mills, May, 646.

ANESTHESIA Dysphagia, Hysterical: report of case (ab.), H. W. Schmidt, Feb., 256.

Cyclopropane anesthesia, Massive atelectasis following: report of cases and theory of cause and prevention (ab.), O. R. Jones and G. E. Burford, March, 378.

BUNYSM
Aneurysm, Clinical aspects of (ab.), J. H. Mills and B. T.
Horton, June, 746.
Aneurysm of heart wall, Instructive case of, with "teeter-movement" symptom (ab.), L. Bischoff, June, 746.
Dissecting aneurysm of aorta: clinical recognition (ab.),
A. J. Patek, April, 509.

A. J. Patek, April, 509.

Paraplegia from erosion of vertebral column by large thoracic aneurysm, M. J. Hubeny and P. J. Delano, Feb., 171.

Radiology in elucidation of hemoptysis, Value of (ab.), F. G. Wood, March, 378.

Roentgen kymographic studies of aneurysms and mediastinal tumors (ab.), W. G. Scott and S. Moore, March, 377.

Saccular aneurysms of internal carotid artery in cavernous sinus (ab.), G. Jefferson, April, 508.

Primary tuberculous angina, Diagnostic value of pulmonary radiography in: insufficiency of radioscopy (ab.), L. Weigel, May, 633.

ANGIOMAS. Sec Tumors.

ANIMAL EXPERIMENTATION

Body weight, Influence of ultra-violet rays on, F. Ellinger, Feb., 157.

Feb., 15.
Change of environments of animal cells on their radiosensitivity, Experimental study on effect of (ab.), Y. Kagami, April, 501.
Disc. by C. B. Peirce of "Bone changes in primary hypogonadism," L. M. Hurxthal and H. F. Hare, May, 527.
Experimental production of sarcoma with radium and mesothorium (ab.), E. Uehlinger and O. Schürch, March, 383.
Irradiation of reticulo-endothelial tissue with small doses of roentgen rays, Studies on (ab.), S. A. Chrom, April, 501.
Malignant cells, Further study on direct and indirect actions of radiation on: I.—Transplantation of tissue cultures of Mouse Sarcoma 180 after exposure to roentgen rays: I.—Cultures of tumors irradiated in vivo, K. Sugitura and I. Cohen, Jan., 71.
Neurological tumors, Some experiences, experimental and clinical, with direct irradiation of, during operation with low voltage radiation, J. R. Carty and B. S. Ray, March, 325 (326).
Radiation therapy and glands of internal secretion (ed.),

Radiation therapy and glands of internal secretion (ed.), March, 360.

Radio-active substances, Danger of introducing, into body of mammals: experience with two mares (ab.), T. Nogier, May, 642.

Radiographic studies of excretion of dusts from lungs (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, May, 635.

Roentgen therapy of carefully selected sinus infections, F. M. Hodges and L. O. Snead, June, 669. Soluble radium, injected into animal, distributed in various body tissue, How is? (ab.), F. Daels, March, 383. Stomach, Influence of pituitrin on evacuation of (ab.), R. I. Levina, Jan., 126.

ANTRUM

Osteoma of maxillary sinus (ab.), A. G. Rawlins, March, 384.

Hemorrhoids and ano-rectal angiomas in infants (ab.), A. Bensaude and F. Bertillon, Jan., 123.

KTA. Aneurysm of aorta, Dissecting: clinical recognition (ab.), A. J. Patek, April, 509. Calcified aortic stenosis, Isolated (ab.), W. F. Friedewald and A. R. Ewing, Feb., 259. Paraplegia from erosion of vertebral column by large thoracic aneurysm, M. J. Hubeny and P. J. Delano, Feb., 171. ADATTIS.

APPARATUS

Paraplegia from erosion of vertebral column by large thoracic aneurysm, M. J. Hubeny and P. J. Delano, Feb., 171. PARATUS
Biotome of Bocage and of planigraph of Ziedses des Plantes, Presentation of (ab.), J. Massiot, June, 747.
Biotome: presentation of apparatus (ab.), M. A. Bocage, Feb., 247.
Bocage, Presentation of several pulmonary "biotomes" taken with apparatus of (ab.), Léon-Kindberg and L. Gerard, Feb., 247.
Cold screening in low-power radiography (ab.), S. T. Li, April, 501.
Dosage measurements by simple computations, H. M. Parker, May, 591.
Dosage measurements by simple computations, H. M. Parker, May, 591.
Dosimetric and radiobiologic experiments with fast neutrons.—I. (ab.), K. G. Zimmer, April, 504.
Electrostatic generator operating under high air pressure—operational experience and accessory apparatus (ab.), D. B. Parkinson, R. G. Herb, E. J. Bernet, and J. L. McKibben, Feb., 248.
Exhibition rack, Convenient lantern-slide, V. Mooney, April, 476.
Geiger-Müller counter: recent instrument in medicine and medical research (ab.), M. L. Weinstein and L. Rovner, April, 501.
Greinacher "spark" counter for measurement of very small quantities of roentgen and radium rays (ab.), A. Leichti, Feb., 248.
Bigh milliamperage and high voltage apparatus for roentgen deep therapy, Modern (ab.), W. Fehr, June, 746.
Historadiography (ab.), P. Lamarque, April, 501.
Ionization chambers, Dependence of ionization current on volume of small (ab.), U. Henschke, Feb., 247.
Measurement of tissue dosage in radiation therapy, E. H. Quimby, May, 583.
Miniature photographs from roentgen screen, Standing and prospects of (ab.), H. Holfelder and F. Berner, June, 746.
Mobile x-ray apparatus, Roentgen treatment of acute peritonitis and other infections with, J. A. Kelly and D. A. Dowell, June, 675.
Near-distance x-ray tubes and body cavity tubes of various constructions, Distribution of dose in (ab.), T. Zimmer, June, 747.

Near-distance x-ray tubes and body cavity tubes of various constructions, Distribution of dose in (ab.), T. Zimmer, June, 747.

June, 747.

Neutron production and production of artificial radioactivity, Technic of (ab.), A. Bouwers, April, 501.
Planigraphy—application to thoracic diagnosis, W. E.
Howes, May, 556.
Planigraphy with mathematical instruments, Computation
of dimensions in, D. H. Drummond and W. W. Schmela,
May, 550.

May, 550

of dimensions in, D. H. Drummond and W. W. Schmela, May, 550.
Radiographic teaching models, Two (ab.), W. E. Boyd, June, 746.
Radiography of optic canal, Simple procedure for (ab.), A. Bardy, Feb., 248.
Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142.
Roentgen of the property and fetalometry: elimination of errors due to movements between x-ray exposures, W. W. Fray and W. T. Pommerenke, March, 261.
Scattering and photo-electric absorption of high voltage x-rays in nitrogen (ab.), H. C. Trueblood and D. H. Loughridge, May, 637.
Stratigraphy of lungs and bones (ab.), Delaborde, June, 746.
Stratigraphy, Practical pulmonary (ab.), C. Gaillard, June, 747.
Table for use in radiography of infants' chests, H. Geissberger, Jan., 96.

Table for use in radiography of infants chests, 12. Gelssberger, Jan., 96.

Targets in cyclotron, Internal (ab.), R. R. Wilson and M. D. Kamen, June, 747.

Thimble ionization chamber, Note on use of clinical dosage meters using, M. C. Reinhard, March, 282.

Tube actuated by Van de Graaf generator, Physical measurements on roentgen radiation from, J. C. Hudson, May, 830.

Job. Tubes, Effect of cable length on radiation output of shock-proof x-ray, T. H. Rogers, Feb., 202.

¹ A number in parentheses following the folio indicates that on that page is to be found a special reference to the indexed subject.

APPARATUS-Continued

Tube, Experiments with condenser discharge x-ray (ab.), K. H. Kingdon and H. E. Tanis, Jr., Feb., 247.

Tubes, Five years' experience of modern shock-proof and ray-proof containers for roentgen therapy (ab.), R. Thoraeus, Feb., 247.

acus, rep., 241.

Tube rail for general diagnostic x-ray laboratory, Ceiling mounted, C. J. Zintheo, April, 477.

Visualization of sinus tracts, Simple apparatus for, L. Long,

June, 733.

X-ray apparatus, Problem of "high current" (ab.), C. H.

Esser and P. Ott, Feb., 248.

X-ray tube with pointed anode, New Siemens body cavity
(ab.), Zimmer, Feb., 247.

APPENDIX

APPENDIX

Calcified fecalith in appendix: report of case of acute suppurative appendicitis perforated by calcified fecalith (ab.), H. J. Shelley, April, 502.

Chronic appendicitis and x-ray study (ab.), H. Lossen, April, 501.

Lipiodol in treatment of persistent fecal fistula after appendectomy (ab.), S. N. Mendelsohn and L. H. Schriver, April, 501.

ARTERIES

Anaurysms of interest.

Aneurysms of internal carotid artery in cavernous sinus, Saccular (ab.), G. Jefferson, April, 508. ARTERIOGRAPHY

Carcinoma of thymus, with marked pulmonary osteo-arthropathy, E. R. Miller, June, 651 (658). X-ray inquiry into genesis of current of venous blood and lymph, K. Mayer, March, 275.

Acute arthritis developing in hip joint presenting lesions of post-traumatic coxarthritis (ab.), Lamarque and Bétoulières, March, 374.

Acute infectious arthritis, New surgical procedure in (ab.), H. E. Hipps, Feb., 248.

Chronic arthritis, Massive doses of vitamin D in: effect on calcium metabolism (ab.), C. L. Steinberg, March, 366.

Shoulder, Chronic arthritis of (ab.), J. G. Kuhns, Feb., 248.

Gonococcal infections. Favorathers of N. S.

GONOCICCAI infections, Fever therapy in, W. Bierman and C. L. Levenson, April, 454 (458).

ARTHRITIS DEFORMANS

Chauffard-Still's disease, Treatment of (ab.), F. LePenne-tier, March, 385.

ASBESTOSIS Asbestosis (ab.), J. V. Sparkes, June, 747. See also Pneuoconiosis. ASTHMA

Bronchial asthma, Roentgen studies of pathological phys-iology of (ab.), L. G. Rigler and R. Koucky, June, 748. ATELECTASIS

Acute and chronic atelectases of lungs and their sequences (ab.), R. Pohl, March, 379.

Massive atelectasis following cyclopropane anesthesia: report of cases and theory of cause and prevention (ab.), O. R. Jones and G. E. Burford, March, 378.

ATLAS AND AXIS

Fracture of atlas in automobile accidents: value of x-ray views for diagnosis (ab.). H. F. Plaut, March, 372.
Fracture of odontoid, Three cases of injury to cervical spine, including one of unrecognized (ab.), Brillouet and A. Viel, March, 372.

AZOTEMIA. See Blood nitrogen.

ack pain and sciatica, Displacement of intervertebral cartilage as cause of (ab.), E. F. Fincher and E. B. Walker, March, 366.

Hypertrophy of ligamentum flavum as factor in production of low back and sciatic pain (ab.), W. D. Abbott, March,

306.
Low back and sciatic pain, Intractable, due to protruded intervertebral disks: diagnosis and treatment (ab.), J. G. Love, June, 748.
Low back pain in relation to urology (ab.), S. F. Wildman, June, 748.

June, 195.

Low backache, Lumbosacral anomalies as cause of (ab.),
W. Clarkson and A. Barker, June, 748.

Lower back, Orthopedic aspects of pain in (ab.), L. W.

Breck, Feb., 249.

BACTERIA

Brucella melitensis, Vertebral osteo-arthritis due to (ab.), H. Duclos, April, 517.
BILIARY TRACT

IARY TRACT
Calculi, Differential diagnosis of biliary and urinary (ab.),
H. Pons, June, 751.
Carcinoma of biliary system, Primary: clinico-pathological analysis of 40 cases (ab.), R. D'Aunoy, M. A. Ogden, and B. Halpert, March, 369.
Common duct stones, Non-operative management of remaining (ab.), R. R. Best and N. F. Hicken, Feb., 250.
Gallstones, Formation of transparent gas-filled fissures in, and their significance for radiological diagnosis (ab.), Å.

Åkerlund, June, 751. Hepatic complications in polycythemia vera (ab.), A. R. Sohval, April, 511. Pyogenic liver abseess (ab.), E. L. Eliason, R. B. Brown, and D. P. Anderson, April, 511.

BIOGRAPHY

Taylor, Raymond Griswold: appreciation, L. H. Garland, Jan., 108.

BIOLOGICAL EXPERIMENTATION

Dosimetric and radiobiologic experiments with fast neu-trons.—II. (ab.), K. G. Zimmer and N. W. Timofeeff-Ressovsky, April, 504.

Ressovsky, April, 504.
Low temperature on recovery from roentgen rays, Influence of, E. V. Cook, March, 289.
Mitogenetic radiation, Present status of, A. Hollaender, April, 404.
Radiobiological experiments with pupe of *Drosophila* (ab.), A. Liechti, W. Minder, and J. H. Müller, April, 502.

Radiosensitivity and cell division (ab.), W. Luther, Feb.,

249.
Radiosensitivity and recurrent growth in Obelia, P. S.
Henshaw, April, 466.
Roentgen rays, Biologic effect of (ab.), J. A. Crowther, Feb., 249.

BIOPSY BIOPSY
Carcinoma of breast, Value of radiation in treatment of,
L. G. Allen, Jan., 63 (66).
Tumor variants and their influence upon radiosensitivity,
Some histological, I. A. B. Cathie, April, 425 (426).
BLADDER

Calculus of bladder in case previously treated for cancer of cervix (ab.), T. Nogier, March, 369.
Carcinoma, bladder, Radium therapy of: five-year results, failures, and future therapy (ab.), B. S. Barringer, May, 641.

641.

Dermoid cyst of bladder (ab.), A. Lidzki, June, 749.

Injurious effects on bladder, Avoidance of, in radiation therapy of carcinoma of uterus (ab.), T. C. Neeff and F. Hoff, June, 749.

Tumors, Radiological diagnosis of bladder (ab.), W. Sitkowski, June, 749.

BLOOD

Hemophilia, Joint changes in, N. B. Newcomer, May,

573.

Injury of blood in consequence of teleroentgen therapy of whole body, Serious (ab.), D. den Hoed, B. Levie, and M. Straub, March, 386.

Polycythemia, Course of (ab.), N. Rosenthal and F. A. Bassen, April, 502.

circulation.

Circulation in pericardial effusion, Studies of (ab.), H. J. Stewart, N. F. Crane, and J. E. Deitrick, March, 373. X-ray inquiry into genesis of current of venous blood and lymph, K. Mayer, March, 275.

lympa, K. Mayer, March, 213.
nitrogen
"Azotemic lung": radiographic study (ab.), C. Roubier,
May, 634.
BLOOD PRESSURE, high
Essential hypertension, Effects of pentothal sodium on electrocardiogram of patients with (ab.), C. J. Betlach, Jan.,

BODY, weight
Ultra-violet rays on body weight, Influence of, F. Ellinger,
Feb., 157.
BONES

Osteo-arthropathy, with marked pulmonary, Carcinoma of thymus, E. R. Miller, June, 651.

Stratigraphy of lungs and bones (ab.), Delaborde, June,

Syphilis of bones and joints (ab.), F. A. Jostes and M. B. Roche, May, 645.

Arthritis, New surgical procedure in acute infectious (ab.), H. E. Hipps, Feb., 248. Arthritis of shoulder, Chronic (ab.), J. G. Kuhns, Feb.,

248.

Bone tuberculosis, Unusual manifestations of, B. P. Widmann, H. W. Ostrum, and R. F. Miller, April, 434.

Brodie's abseess and differential diagnosis (ab.), J. F. Brailsford, Feb., 249.

Cystic enlargement of mandible in Senegalese, Diffuse (ab.), Castay, April, 502.

Deformities of hip joint in children (ab.), C. G. Teall, March, 374.

March, 374. Frontal hyperostosis syndrome (ab.), H. M. Salzer, April,

(ab.), C. F. Geschickter and I. H. Maseritz, Feb., 250. Hodgkin's disease of bones (ab.), H. S. Lieberman, March, 367.

367.

Lower jaw of Senegalese, Puffy and cystic appearance of (ab.), Castay, Feb., 249.

Luetic osteitis simulating malignant disease (ab.), A. H. Ungerman, W. H. Vicary, and W. W. Eldridge, April, 517.

Osseous-cartilaginous growth, Rare disturbances of (ab.), F. Holldack, March, 366.

Osseous dystrophy of von Recklinghausen type (ab.), M. Deluen, March, 367.

Osteoperiositiis associated with hypertrophy of palpebral tarsi, skin of face and extremities, Radiologic aspects of almost total: new syndrome (ab.), J. N. Roy and A. Jutras, April, 502.

almost total: new syndrome (ab.), J. N. Roy and A. Jut-ras, April, 502.

Osteoporosis in hyperthyroidism (ab.), E. C. Bartels and G. E. Haggart, Feb., 249.

Osteoporosis, Roentgen therapy in acute (ab.), E. B. Mum-ford, March, 367.

Paget's disease of bone, Roentgen therapy of (ab.), R. Ledoux-Lebard, March, 367.
Paget's disease with diffuse involvement of small bones of extremities, Generalized form of (ab.), P. Harvier, J. Mallarmé, and G. Ledoux-Lebard, Feb., 250.
Pathologic fractures (ab.), R. K. Ghormley, C. G. Sutherland, and G. A. Pollock, Feb., 258.
Petrous tip suppuration: report of three cases, Some observations on (ab.), D. E. S. Wishart, Feb., 256.
Pneumatization of facial bones in Crouzon's disease, Apert's disease, and oxycephaly (ab.), P. de Gunten, March, 384.
Sarcoidosis: report of case (ab.), W. B. Blanton, March, 367.
Sarcoma of left coxofemoral region, Voluminous ostcogenic (ab.), Carteret, Dillenseger, and P. Bertrand, May, 643.
Syphilis, Roentgenological manifestations in bone (ab.), D. M. Stewart, April, 518.
Tumor of bone, Giant-cell (ab.), B. L. Coley and N. L. Higinbotham, March, 367.

fragility Osteogenesis imperfecta tarda, J. F. Lutz and L. C. Pusch, April, 391.

Polycythemia, Course of (ab.), N. Rosenthal and F. A. Bassen, April, 502.

Adamantinoma of tibia (ab.), B. Wolfort and D. Sloane,

March, 389.

Benign giant-cell tumor of bone, Roentgen diagnosis and treatment of (ab.), J. A. Meadows and K. F. Kesmodel, March, 367.

Bone tumors (ab.), C. A. Hellwig and C. H. Warfield, March,

oos. Bone tumors (ab.), G. J. McChesney, R. L. Carroll, and K. S. Davis, March, 368. Giant-cell tumor ("osteoclastoma") of femur treated with x-rays (ab.), S. Dechambre, E. Dechambre, and J. Neb-Giant-ceil tumor (Stevenastonia) i tumor tumor tumor x-rays (ab.), S. Dechambre, E. Dechambre, and J. Nebout, May, 648.
Intracrania tumors, Bony (ab.), C. Pilcher, May, 647.
Radiosensitivity of Ewing's tumor (ab.), G.-C. Leclere,

Radiosensitivity of Ewing's tumor (ab.), G.-C. Lectere, May, 648.

Sarcoma, Results of treatment of osteogenic (ab.), H. W. Meyerding, March, 388.

X-ray in general practice, Value of (ab.), C. G. Sutherland, May, 646.

May, 646.

BOOKS, received and reviewed
Abramowitsch, D., with Neoussikine, B., jt. auth.
de Andrade, Geraldo, and Lins, Aguinaldo, Diagnosis of
Aneurysms of Thoracic Aorta (rev.), Feb., 241.
Appleton, Arthur B., Hamilton, William J., and Tchaperoff,
Ivan C. C., Surface and Radiological Anatomy (rev.),
May, 628.
Backsse, F., Radiologic Diagnosis of Malignant Tumors
of Pharynx and Larynx: Radiographic and Topographicanatomical Study (rev.), May, 626.
Bierman, William, Medical Application of Short Wave
Current (rev.), Feb., 243.
Brednow, Walter, Roentgen Atlas of Diseases of Heart and
Vessels (rec.), June, 744.
Delario, A. J., Handbook of Roentgen and Radium Therapy
(rev.), Feb., 242.
Deherm, L., and La Querriere, A., Treatise on Electroradiography (rev.), Feb., 244.
Donaldson, Samuel W., Roentgenologist in Court (rev.)
May, 627.
Dues, Otto, Deformities of Ventricles of Brain Associated

Delherm, L., and La Querriere, A., Treatise on Electroradiography (rev.), Feb., 244.

Donaldson, Samuel W., Roentgenologist in Court (rev.) May, 627.

Dyes, Otto, Deformities of Ventricles of Brain Associated with Brain Tumor (rev.), May, 627.

Feldman, Maurice, Clinical Roentgenology of Digestive Tract (rev.), May, 626.

Ferguson, A. B., Roentgen Diagnosis of Extremities and Spine (rec.), April, 495.

Firor, Whitmer, B., with Waters, Charles A., jt. ed.

Freeman, Ira M., in collaboration with Haas, Arthur E. Haas, Arthur E., with collaboration of Freeman, Ira M., Elementary Survey of Physics (rev.), May, 628.

Hamilton, William J., with Appleton, Arthur B., jt. auth. Janker, Robert, Photography of Screen Image: Method of Serial Roentgen Examination (rec.), April, 496.

Jönsson, Gunnar, Malignant Tumors of Skeletal Muscles, Fasciez, Joint Capsules, Tendon Sheaths, and Serous Bursæ (rev.), Jan., 114.

Jordan, Henry H., Orthopedic Appliances—Principles and Practice of Brace Construction for Use of Orthopedic Surgeons and Brace Makers (rec.), Feb., 241; (rev.), April, 496.

Agolan, Ira A., with Waters, Charles A., jt. ed.
Kaplan, Ira A., with Waters, Charles A., jt. ed.
Kienböck, Robert, Roentgen Diagnosis of Diseases of
Bones and Joints (rev.), Feb., 241.
Lanza, A. J. (ed.), Silicosis and Asbestosis (rec.), Feb., 241.
La Querriere, A., with Delherm, L., jt. auth.
Le Go, Pierre, with Richet, Charles, jt. auth.
Lins, Aguinaldo, with de Andrade, Geraldo, jt. auth.
Morton, Dudley J., Oh, Doctor, My Feet! (rec.), April, 496;
(rev.) May, 626.
Neoussikine, B., and Abramowitsch, D., Electrodiagnosis
(rec.), June, 744.
Richet, Charles, Surmont, Jean, and Le Go, Pierre, Fever
Therapy (rev.), Feb., 243.
Rigler, Leo G., Outline of Roentgen Diagnosis: An Orientation in the Basic Principles of Diagnosis by the
Roentgen Method (rev.), March, 362.
Schliephake, E., Short Wave Therapy (rev.), Feb., 243.

Simons, Edwin J., Primary Carcinoma of Lung (rev.), Feb.,

Simons, Edwin J., Primary Carcinoma of Lung (rev.), Feb., 242.
 Stieböck, L. H., Practice and Results with Short Wave Treatment Methods in Diseases Resistant to General Therapeutic Methods (rev.), Feb., 244.
 Surmont, Jean, with Richet, Charles, jt. auth. Tchaperoff, Ivan C. C., with Appleton, Arthur B., jt. auth. Waters, Charles A., Firor, Whitmer B., and Kaplan, Ira A. (eds.), 1938 Year Book of Radiology (rev.), April, 496.
 BRAIN

Neurological tumors, Some experiences, experimental and clinical, with direct irradiation of, during operation with low voltage radiation, J. R. Carty and B. S. Ray, March, 325. tumors

Anterior basal meningiomas (ab.), W. R. Henderson, Jan.,

BREAST

AST
Adipose tissue, Roentgen diagnostic importance of, J.
Silbermann, Jan., 77 (83).
Breast lesions by means of contrast media, Roentgen visualization and diagnosis of (ab.), N. F. Hicken, R. R. Best,
H. B. Hunt, and T. T. Harris, March, 368.
Calcifications in breast, Extensive (ab.), A. Kubat, March,

Calcifications in breast, Extensive (ab.), A. Kubat, March, 388.

Cancer of breast, Technic of x-ray treatment of operable, based upon analysis of Keynes' radium technic, J. R. Andrews, March, 294.

Carcinoma of breast treated by teleroentgentherapy, Vertebral metastasis from (ab.), A. Poulain, Feb., 250.

Carcinoma of breast, Treatment of: technic, complications, and results, E. Newcomer, Feb., 161.

Carcinoma of breast, Value of radiation in treatment of, L. G. Allen, Jan., 63.

Carcinoma of cervix and breast: prognosis and preferable therapy (ab.), E. D. Greenberger, March, 370.

Mammography by contrast media, Limitations and dangers of (ab.), S. A. Romano and E. M. McFetridge, April, 504.

Mammography, Studies in evaluation of (ab.), R. A. Reis and S. D. Mesirow, April, 504.

Mastitis and breast cancer, Chronic: family history of five sisters (ab.), W. S. Hadley, Feb., 250.

Normal breast, Roentgenologic examination of: evaluation in demonstrating early neoplastic changes (ab.), J. Gershon-Cohen and A. Strickler, March, 368.

BRODIE'S ABSCESS. See Bones, diseases.

BRONCHI

Cohen and A. Strickler, March. 388.

BRONIE'S ABSCESS. See Bones, diseases.

BRONCHI

Anatomy of bronchial tree and clinical application (ab.),
J. H. Neil, W. Gilmour, F. J. Gwynne, W. Main, and W.
A. Fairclough, June, 750.

Asthma, Roentgen studies of pathological physiology of bronchial (ab.), L. G. Rigler and R. Koucky, June, 748.

Bronchiectasis, Further experience with roentgen therapy for, M. Berck and W. Harris, June, 693.

Bronchogenic carcinoma from pathologic and radiologic points of view, Primary (ab.), W. L. Mattick and E. M. Burke, Feb., 252.

Bronchogenic carcinoma: study of eight autopsied cases, W. E. Howes and S. G. Schenck, Jan., 8.

Bronchogenic boservation of re-expanded lungs following artificial pneumothorax (ab.), G. Zorzoli, May, 638.

Bronchostenosis: roentgenological study (ab.), N. Westermark, June, 750.

Carcinoma of bronchus, Primary (ab.), I. H. Lockwood, June, 752.

Segments in right upper lobe, Division of lung (ab.), E. Behr and E. Huizinga, May, 635.

BRONCHIECTASIS

Carcinoma of lung, Roentgenographic images in primary, L. A. Hochberg, June, 713 (721).

Lobectomy, Bilateral, for bronchiectasis (ab.), D. E. Ross, June, 750.

Radiology in elucidation of hemoptysis, Value of (ab.), F. G. Wood, March, 378.

Roentgen therapy for bronchiectasis, Further experience with, M. Berck and W. Harris, June, 693.

Stenosis, Rôle of inflammatory bronchial, in etiology of bronchiectasis (ab.), P. H. Holinger, June, 749.

Thoracic diagnosis, Planigraphy—its application to, W. E. Howes, May, 556 (561).

BRONCHOPNEUMONIA

Bronchopneumonia, Delayed resolution in (ab.), F. N. Cole, March, 382.

Bronchopneumonia, Delayed resolution in (ab.), F. N. Cole, March, 382.

Lobar pneumonia, Roentgen therapy of (ab.), E. V. Powell,

March, 382. BRONCHOSCOPY

Bronchoscopy and esophagoscopy of importance in general practice, Phases of (ab.), V. J. Schwartz, Feb., 250.

Calcification of bursa of coracoclavicular ligament (ab.), H. J. McCurrich, April, 503. Cystic hygroma of neck (ab.), B. L. Fleming, Jan., 129.

CALCANEUM
Arthritis, New surgical procedure in acute infectious (ab.),
H. E. Hipps, Feb., 248.
Fractures of os calcis (ab.), D. C. McKeever, April, 505.
CALCIFICATION

Angiomas, Calcification in (ab.), F. Y. Khoo, Jan., 128. Calcifications in breast, Extensive (ab.), A. Kubat, March, 368.

CALCIFICATION-Continued

CIFICATION—Continued
Calcifications within lungs, Significance of (ab.), D. A. Rhinehart, March, 380.
Calcified aortic stenosis, Isolated (ab.), W. F. Friedewald and A. R. Ewing, Feb., 259.
Calcified fecalith in appendix: report of case of acute suppurative appendicties perforated by calcified fecalith (ab.), H. J. Shelley, April, 502.
Calcified scrotal tumor, A. Fine and S. Brown, Jan., 92.
Coracoclavicular ligament, Calcification of bursa of (ab.), H. J. McCurrich, April, 503.
Diagnosis of unusual calcareous shadows found on x-ray films of abdomen, C. B. Rose, May, 600.
Meniscus, Calcification of, and hypertrophic spurring (ab.), Roederer, Gaucher, and Jesover, April, 517.
LCIUM. metabolism

CALCIUM, metabolism
Vitamin D in chronic arthritis, Massive doses of: effect on calcium metabolism (ab.), C. L. Steinberg, March, 366.

CALCULI

Biliary and urinary calculi, Differential diagnosis of (ab.), H. Pons, June, 751.

Calcareous shadows found on x-ray films of abdomen, Diagnosis of unusual, C. B. Rose, May, 600.

Calcium carbonate deposits in human gall bladder (ab.), A. T. Cameron, F. D. White, and S. Meltzer, April, 505.

Calculus of bladder in case previously treated for cancer of cervix (ab.), T. Nogier, March, 369.

Calculus of gall bladder with suppuration, Large (ab), E. Binet and Dillenseger, Feb., 251.

Common duct stones, Non-operative management of remaining (ab.), R. R. Best and N. F. Hicken, Feb., 251.

Callstones, Formation of transparent gas-filled fissures in, and their significance for radiological diagnosis (ab.), Å Åkerlund June, 751.

and their significance for radiological diagnosis (ab.), A. Åkerlund, June, 751.

Nephrolithiasis, Late results in conservative management of (ab.), J. T. Priestley and W. F. Braasch, March, 377.

Parotid duct, Radiography of, L. W. Paul, May, 609.

Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131 (135).

(135). reteric calculus, Radiological aspect of treatment of (ab.), D. G. Maitland, March, 368. rinary calculus, Brief review of 426 consecutive cases of (ab.), H. P. Winsbury-White, Feb., 251.

Biliary system, Primary carcinoma of: clinico-pathological analysis of 40 cases (ab.), R. D'Aunoy, M. A. Ogden, and B. Halpert, March, 369. Bladder carcinoma, Radium therapy of: five-year results, failures, and future therapy (ab.), B. S. Barringer, May, 841

641.

Breast treated by teleroentgentherapy, Vertebral metastasis from carcinoma of (ab.), A. Poulain, Feb., 250.

Breast, Treatment of carcinoma of: technic, complications, and results, E. Newcomer, Feb., 161.

Breast, Value of radiation in treatment of carcinoma of, L. G. Allen, Jan., 63.

Bronchogenic carcinoma from pathologic and radiologic points of view, Primary (ab.), W. L. Mattick and E. M. Burke, Feb., 252.

Bronchogenic carcinoma: study of eight autopsied cases.

Burke, Feb., 262.

Bronchogenic carcinoma: study of eight autopsied cases, W. E. Howes and S. G. Schenck, Jan., 8.

Bronchoscopy and esophagoscopy of importance in general practice, Phases of (ab.), V. J. Schwartz, Feb., 250.

Bronchus, Primary carcinoma of (ab.), I. H. Lockwood, June, 752.

June, 132.

Cancer campaign: suggestions for better treatment of malignant growths (ab.), A. M. Begg, Feb., 253.

Cancerology indispensable to practitioner, Practical ideas concerning (ab.), R. Reding, Feb., 253.

Cervix uteri, Carcinoma of, Treatment of (ab.), R. E. Myers, March, 369.

Myers, March, 389.

Cervix uteri, Factors relating to treatment of (ab.), G. H.
Johnson, March, 390.

Collum carcinoma, Results obtained in radiation treatment
of inoperable (ab.), I. de Büben, March, 370.

Colon, Carcinoma of, Large pedunculated lipoma of colon
nine years after resection of, O. C. Julian, April, 479.

Colon disorders, Fundamentals in surgical treatment of
(ab.), L. M. Larson, Feb., 254.

Colon of masked type, Cancer of transverse (ab.), A. Cade
and M. Milhaud, March, 371.

Esophagus, Studies regarding technic and methods in
radiation therapy of carcinoma of (ab.), A. Adam, Feb.,
257.

Gastric cancer, Two cases of: difficulty of radio-diagnosis of lesions of pyloric antrum (ab.), P. Vasselle, March,

369

369.
Gastric cancer, X-ray diagnosis of (ab.), A. J. Delario, June, 752.
Histological tumor variants and their influence upon radiosensitivity, Some, I. A. B. Cathie, April, 425.
Hypopharynx, Results of radiation therapy in carcinoma of (ab.), E. Bandhauer, Feb., 225.
Intra-oral carcinoma, Cervical lymph nodes in: surgery or irradiation? (ab.), J. J. Duffy, March, 370.
Larynx and hypopharynx, Results of roentgen and radium therapy in carcinoma of (ab.), R. Müller, April, 503.
Larynx, Tumors of (ab.), F. A. Figi, May, 632.

Lip cancer at Radiological Clinic, Lund, Sweden, Review of 20 years' radium treatment of (ab.), A. Bergendal, Jan., 123.

20 years' radium treatment of (ab.), A. Bergendal, Jan., 123.
Lung, Association of silicosis and carcinoma of (ab.), M. O. Klotz, May, 634.
Lung, Primary carcinoma of (ab.), M. O. Klotz, Feb., 252.
Lung, Primary carcinoma of: clinical study of 160 cases in five years (ab.), A. Arkin, March, 379.
Lung, Radiation therapy in primary neoplasms of (ab.), R. E. Myers, March, 379.
Lymphatics (ed.), April, 491.
Mastitis and breast cancer, Chronic: family history of five sisters (ab.), W. S. Hadley, Feb., 250.
Oto-rhino-laryngological cancer by radiations, Indications and results of treatment of (ab.), L. Eloy, Feb., 253.
Pancreas, Roentgen diagnosis of diseases of (ab.), R. Pohl, March, 381.
Parotid gland, Application of sialography in non-neoplastic

March, 381.

Parotid gland, Application of sialography in non-neoplastic diseases of , J. V. Blady and A. F. Hocker, Feb., 131.

Pharynx and larynx, Treatment of carcinoma in, and results (ab.), L. Colledge, March, 370.

Prevention and control of cancer: plan for nation-wide organization (ab.), J. W. Schereschewsky, Feb., 254.

Primary cancer of lung (ab.), D. S. King, April, 511.

Primary carcinoma of lung, Roentgenographic images in, L. A. Hochberg, June, 713.

Primary malignant lesions, Occurrence of two or more, J. J. Collins, April, 462.

Prostate. Metastases from occult carcinoma of (ab.), O. S.

Prostate, Metastases from occult carcinoma of (ab.), O. S. Culp, April, 513.

Pylorus, Pedunculated cancer of (ab.), Poirier and Lamour-

Cup, April, 513.

Pylorus, Pedunculated cancer of (ab.), Poirier and Lamoureaux, April, 520.

Radiology in elucidation of hemoptysis, Value of (ab.), F. G. Wood, March, 378.

Renal carcinoma: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.

Roentgen therapy (ab.), L. S. McAlister, Feb., 253.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (152).

'Romantic' attributes of 'lawlessness' and 'malignancy' in cancer (ab.), H. Oertel, June, 751.

Skin and lip, Barly results of near distance radiation in carcinoma of (ab.), A. Hrabovszky, Feb., 254.

Skin and lip, Radium therapy of carcinoma of (ab.), J. Körbler, March, 383.

Skin malignancy, Treatment of, by irradiation (ab.), H. W. Jacox, March, 369.

Stomach, Early diagnosis of cancer of (ab.), L. J. Notkin, June, 752.

June, 752.
 Stomach, Symptoms, diagnosis, and treatment of cancer of (ab.), J. S. Horsley, March, 385.
 Thymus, Carcinoma of, with marked pulmonary osteo arthropathy, E. R. Miller, June, 651.
 Tumors of upper pole of stomach (ab.) B. Stenström, Jan., 129.

Tumors of upper pole of stomach (ab.) B. Stenström, Jan., 129.

Urinary prolans in cancer cases (ab.), E. Harvey, Feb., 252.

Uterine carcinoma, Development of treatment methods for, at Women's Clinic of University of Würzburg (ab.), T. C. Neeff, May, 649.

Uterine carcinoma, Present method of radiation therapy of, in first gynecological clinic of University of Munich (ab.), F. G. Dietel, May, 650.

Uterine carcinoma of (ab.), H. H. Bowing and R. E. Fricke, May, 649.

[Uterus] Carcinoma of cervix, Radium therapy of (ab.), K. Wasserburger and H. Smereker, Jan., 122.

[Uterus] Cervix and breast, Carcinoma of: prognosis and preferable therapy (ab.), E. D. Greenberger, March, 370.

[Uterus] Cervix, Cancer of: therapeutic and bielogical thoughts (ab.), S. Laborde, April, 520.

[Uterus] Cervix, Carcinoma, Early results in, from single and divided doses of roentgen radiation (ab.), A. N. Arneson, March, 371.

Uterus, Is it possible to use radium bomb for intravaginal treatment of carcinoma of, and would it be possible to improve considerably distribution of radiation? (ab.), R. du Mesnil de Rochemont, April, 515.

[Uterus] Cervix, Results and experiences in treatment of carcinoma of, with special consideration of radium therapy (ab.), P. Caffier, May, 649.

[Uterus] Cervix, Results in treatment of carcinoma of, at Women's Clinic of University of Göttingen from 1926 to 1937 (ab.), F. Erichsen, April, 520.

[Uterus, Multiple heteromorphologic malignant tumors of, H. W. Jacox, G. Major, and M. R. Baker, Jan., 51.

Uterus, radiation therapy of carcinoma of, Avoidance of injurious effects on bladder in (ab.), T. C. Neeff and F. Hoff, June, 749.

Uterus in treatment of carcinoma of or carcinoma of (ab.), A. Mayer, March, 390.

Uterus, Thirty years' experience in treatment of carcinoma of (ab.), A. Mayer, March, 390.

Venous thrombosis, Carcinoma and: frequency of associa-tion of carcinoma in body or tail of pancreas with multiple venous thrombosis (ab.), E. E. Sproul, June, 752.

venous thrombosis (ab.), b. E. Sproui, June, 102. Vertebral cancer, Remarks on (ab.), F.-G. Marill, R. Raynaud, and A. Huguenin, April, 517. X-ray treatment of operable cancer of breast, Technic of, based upon analysis of Keynes' radium technic, J. R. Andrews, March, 294.

CARCINOMA. See Cancer. CAROTID SINUS

Roentgen therapy in carotid sinus syndrome, Use of, C. A. Stevenson, Feb., 209.

CARTILAGE Intervertebral cartilage as cause of back pain and sciatica, Displacement of (ab.), E. F. Fincher and E. B. Walker, March, 366. Osseous-cartilaginous growth, Rare disturbances of (ab.), P. Holldack, March, 366.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (150).

Diverticulitis of cecum, Solitary (ab.), W. N. Graves,

CELLS

LIS
Animal cells, Experimental study on effect of change of
environments of, on their radiosensitivity (ab.), Y.
Kagami, April, 501.
Radiosensitivity and cell division (ab.), W. Luther, Feb.,

249. Radiosensitivity and recurrent growth in Obelia, P. S. Henshaw, April, 466. Roentgen therapy, Dosage and method of, for inflammatory conditions, A. U. Desjardins, June, 699.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142.

CHAUFFARD-STILL'S DISEASE. See Arthritis deformans.

Shape of chest, Correlation of positive reaction to tuber-culin and (ab.), S. A. Weisman, April, 519. See Thorax. CHILDREN

Artificial pneumothorax in children (ab.), P. F. Fitzpatrick, April, 513.

Childhood tuberculosis, Certain significant aspects of (ab.), R. M. Tyson, Jan., 127.

Cystic hygroma of neck (ab.), B. L. Fleming, Jan., 129.

Deformities of hip joint in children (ab.), C. G. Teall, March, 374.

March, 374.

Intussusception in infancy and childhood (ab.), G. P. Grigsby and S. E. Kaplan, Jan., 117.

Lipoid pneumonia in infants and children, R. S. Bromer and I. J. Wolman, Jan., 1 17.

Pyelitis in girls, Late effects of acute (ab.), L. R. Wharton, L. A. Cray, and H. G. Guild, April, 507.

Radiographic visualization of "true joint fissure," Conditions responsible for (ab.), W. Magnusson, Feb., 260.

Retroperitoneal cyst with agenesia of kidney, K. Kornblum and J. A. Ritter, April, 416.

Urinary tract in children, Non-obstructive dilatations of upper (ab.), A. B. Hepler, April, 507.

Waldeyer's ring in children, Roentgen therapy of diseases of (ab.), H. Weissig, March, 387.

CHOLECYSTOGRAPHY

Calcium carbonate deposits in human gall bladder (ab.),

CHOLECYSTOGRAPHY

Calcium carbonate deposits in human gall bladder (ab.),
A. T. Cameron, F. D. White, and S. Meltzer, April, 505.
Error of technic in administration of tetraiodide with intolerance and prolonged visibility of gall bladder (ab.),
Nemours-Auguste, April, 505.
Intravenous cholecystography, Danger of (ab.), W. Lutz
and H. Seyfried, April, 506.
Single-dose versus double-dose methods of administering
dye: cholecystography, M. Feldman, Feb., 155.

COCCIDIOIDES

Coccidioides infection (coccidioidomycosis). II.—Primary
type of infection (ab.), E. C. Dickson and M. A. Gifford,
April, 509.

Right-sided (regional) colitis (ab.), B. B. Crohn and A. A. Berg, Jan., 117.

Cancer of transverse colon of masked type (ab.), A. Cade and M. Milhaud, March, 371.
Colospasms, Causes and results (ab.), L. Gleize-Rambal, Feb., 255. COLON

Colospasms, Causes and results (ab.), L. Gleize-Rambal, Feb., 255.

Diverticulitis and diverticulosis of colon, Prognosis (ab.), P. W. Brown and D. M. Marcley, Feb., 254.

Insufflation of colon as method of diagnosis in gastrocolic fistula following post-operative jejunal peptic ulcer (ab.), L. Weigel, May, 637.

Invagination of colon, Case of genuine (ab.), B. S. Holmgren, Feb., 254.

Pedunculated lipoma of colon nine years after resection of carcinoma of colon, Large, O. C. Julian, April, 479.

Radiography after injection of pitressin, Several cases of: experimental proofs (ab.), P. C. Smyrniotis, Jan., 122.

Roentgen kymography of normal colon: defecation in man (ab.), R. A. Rendich and L. A. Harrington, March, 371.

Surgical treatment of colon disorders, Fundamentals in (ab.), L. M. Larson, Feb., 254.

CONDYLOMA, rectal

Roentgen therapp by method of Chaoul, E. P. Pendergrass, E. P. Hodes, and C. J. Garrahan, Feb., 142 (152).

Air injection of joints, Technic of (ab.), R. Meyer-Wildisen, Feb., 260.

Feb., 260.

Breast lesions by means of contrast media, Roentgen visualization and diagnosis of (ab.), N. F. Hicken, R. R. Best, H. B. Hunt, and T. T. Harris, March, 368.

Mammography by contrast media, Limitations and dangers of (ab.), S. A. Romano and E. M. McFetridge, April, 504.

504.

Mammography, Studies in evaluation of (ab.), R. A. Rejs and S. D. Mesirow, April, 504.

Pyelography, Acute iodism following intravenous (ab.), Lamarque, Guibal, and Bétoulières, April, 504.

CORACOID PROCESS. See Scapula.

Rase of the state of th

NIUM
Base of skull, with particular reference to fractures (ab.),
W. J. Mellinger, March, 372.
Cranial and spinal lesions in epileptic: difficulties of interpretation (ab.), R. Raynaud, A. Huguenin, and H. Tillier, April, 505.
Hyperostosis syndrome, Frontal (ab.), H. M. Salzer, April, 503.

503.
Schüller-Christian's disease (ab.), M. Esser, May, 643.
Schüller-Christian's disease (ab.), M. Schieber, May, 643.
Tumors, Bony intracranial (ab.), C. Pilcher, May, 647.
Tumors, perisellar, X-ray aspect of (ab.), T. Blühbaum and
M. Spritzer, May, 648.
CROUZON'S DISEASE. See under Bones, diseases.

DEGLUTITION, disorders
Dysphagia, Hysterical: report of case (ab.), H. W. Schmidt,
Feb., 256.

Feb., 256.

DIGITALIS AND DIGITALIS PREPARATIONS
Digitalis on isolated heart, Action of (ab.), L. N. Katz,
M. Mendlowitz, and H. A. Kaplan with assistance of K.
Jochim and E. Lindner, April, 508.

Digitalis on isolated heart, Action of (ab.), L. N. Katz, M. Mendlowitz, and H. A. Kaplan with assistance of K. Jochim and E. Lindner, April, 508.

DISCUSSIONS

Berck, Maurice, of "Further experience with roentgen therapy for bronchiectasis," June, 697.

Bloom, Arthur R., of "Osteogenesis imperfecta tarda," J. F. Lutz and L. C. Pusch, April, 402.
Friedman, Milton, of "Recovery following human ovarian irradiation," H. W. Jacox, May, 542.

Levene, George, of "Pulmonary artery; roentgenographic and roentgen kymographic study," S. Brown, J. E. Mc-Carthy, and A. Fine, Feb., 188.

Menville, Leon J., of "Value of roentgen examination of paranasal sinus," V. C. Johnson, March, 309.

Moore, Paul D., of Symposium on Radiotherapy for Inflammatory Conditions, June, 706.

Moore, Sherwood, of "Some experiences, experimental and clinical, with direct irradiation of neurological tumors during operation with low voltage radiation," J. R. Carty and B. S. Ray, March, 330.

Newell, R. R., of "Treatment of acute and chronic inflammatory conditions by fractional doses of x-ray," H. A. Osgood, March, 314.

Idem, of "Density of central shadow in diagnosis of intrathoracic lesions," L. G. Rigler, March, 323.

Peirce, Carleton B., of "Bone changes in primary hypogonadism," L. M. Hurxhal and H. F. Hare, May, 527.

Perry, Gentz, of "Recovery following human ovarian irradiation," H. W. Jacox, May, 544.

Rhinehart, Barton A., of "Roentgenologic consideration of gastritis," M. Feldman, June, 731.

Schmitt, H., of "Recovery following human ovarian irradiation," H. W. Jacox, May, 543.

Smith, Lester A., of "Osteogenesis imperfecta tarda," L. F. Lutz and L. C. Pusch, April, 402.

Teperson, Hyman I., of "Recovery following human ovarian irradiation," H. W. Jacox, May, 543.

Ude, Walter H., of "Density of central shadow in diagnosis of intrathoracic lesions," L. G. Rigler, March, 322.

DIVERTICULITIS

Colon, Prognosis of diverticulitis and diverticulosis of (ab.), P. W. Brown and D. M. Marcley, Feb., 254.

olon, Prognosis of diverticulitis and diverticulosis of (ab.), P. W. Brown and D. M. Marcley, Feb., 254. DOSAGE

SAGE
Assessing and prescribing dosage in radiation therapy in simple terms, Value of, R. Paterson, Feb., 221.
Back-scatter, Study of (ab.), E. H. Quimby, L. D. Marinelli, and J. H. Farrow, March, 371.
Breast, Treatment of carcinoma of: technic, complications, and results, E. Newcomer, Feb., 161.
Clinical dosage meters using thimble ionization chamber, Note on use of, M. C. Reinhard, March, 282.
Co-relation of physical and clinical data in radiation therapy, W. H. Meyer, Jan., 23.
Dosage units and ionization method (ab.), R. M. Sievert, March, 372.

March, 372 Dose in near-distance x-ray tubes and body cavity tubes of various constructions, Distribution of (ab.), T. Zimmer, June, 747.

June, 747.

Dosimetric and radiobiologic experiments with fast neutrons.

—I. (ab.), K. G. Zimmer, April, 504.

Dosimetric and radiobiologic experiments with fast neutrons.

—I. (ab.), K. G. Zimmer and N. W. Timofeeff-Rassovsky, April, 504.

Efficiency curves in quantitative radiobiology, W. H. Love, June, 708.

June, 708.
Inoperable collum carcinoma, Results obtained in radiation treatment of (ab.), I. de Büben, March, 370.
Irradiation, Recovery following human ovarian, H. W. Jacox, May, 538.
Language of engineers and radiologists: new x-ray terms proposed: rhegma, rhothion, kludon, plem, aith, R. R. Newell, March, 270 (272).

DOSAGE-Continued

SAGE—Continued

Low voltage radiation, Some experiences, experimental and clinical, with direct irradiation of neurological tumors during operation with, J. R. Carty and B. S. Ray, March, 325.

Measurements by simple computations, Dosage, H. M. Parker, May, 591.

Potential in deep therapy, Problem of (ab.), L. Graf and J. Graf, Jan., 122.

Primary and secondary beta rays in radium therapy, Significance of (ab.), W. Minder, March, 383.

Radiation quality factors and depth, Relation between, A. Mutscheller, Jan., 87.

Radio-active emanation, Therapy with (ab.), H. Hirschi and H. Bodmer, April, 515.

Radiobiological experiments with pupæ of Drosophila (ab.), A. Liechti, W. Minder, and J. H. Müller, April, 502.

Roentgen and radium therapy in carcinoma of larvax and

5012.
Roentgen and radium therapy in carcinoma of larynx and hypopharynx, Results of (ab.), R. Müller, April, 503.
Roentgen caustic (ab.), G. J. van der Plaats, March, 371.
Roentgen radiation from tube actuated by Van de Graaf generator, Physical measurements on, J. C. Hudson, May, 530.

generator, Physical measurements on, J. C. Hudson, May, 530.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142.

Roentgen therapy, Dosage and method of, for inflammatory conditions, A. U. Desjardins, June, 699.

Roentgen treatment of leukemia, with report of pregnancy in case of lymphatic leukemia, E. K. Harrison and R. J. Reeves, March, 284.

"Rotation" irradiation, Determination of dose in (ab.), R. du Mesnil de Rochemont, March, 372.

Tissue dosage in radiation therapy, Measurement of, E. H. Quimby, May, 583.

Tolerance dose of radium, Researches in problem of radium poisoning and, B. Rajewsky, Jan., 57.

Ultra-violet rays on body weight, Influence of, F. Ellinger, Feb., 157.

X-ray treatment of operable cancer of breast, Technic of, based upon analysis of Keynes' radium technic, J. R. Andrews, March, 294.

DEFECATION

Normal colon, Roentgen kymography of: defecation in

Normal colon, Roentgen kymography of: defecation in man (ab.), R. A. Rendich and L. A. Harrington, March, 371.

DUODENUM

ODENUM
Anomaly, Duodenal (ab.), H. Tillier, Feb., 258.
Characteristic duodenal deformity in cases of different kinds of peri-vaterial enlargement of pancreas (ab.), N. Frostberg, March, 381.
Diverticula of digestive tract, Multiple (ab.), G. Ronneaux and Witasse, April, 506.
Diverticulum of duodenum (ab.), D. Wheeler, Feb., 255.
Hemorrhage, Problem of gastro-duodenal (ab.), A. M. Snell, May, 636.
Invagination of pylorus into duodenum, Unusual case of (ab.), L. Galifi, Feb., 255.
"Ulcer, large duodenal," Radiologic characteristics of so-called (ab.), D. S. Bartstra, May, 636.

Radiographic studies of excretion of dusts from lungs (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, (ab.), A. I May, 635.

Cholecystography: single-dose versus double-dose methods of administering dye, M. Feldman, Feb., 155.

DYSPEPSIA

Chronic dyspepsia at various ages: analysis of 4,223 cases, Incidence and causes of (ab.), A. B. Rivers and A. E. M. Ferreira, Feb., 256.

Citis media, acute, Evaluation of roentgen irradiation as adjunct in treatment of: preliminary report, A. H. Dowdy, C. A. Heatly, and W. W. Pierce, June, 661. Mastoiditis, Acute, (ab.), J. G. Parsons, May, 635. Petrous tip suppuration: report of three cases, Some observations on (ab.), D. E. S. Wishart, Feb., 256. Septic patient with otitis media, Management of (ab.), J. H. Maxwell, Jan., 120.

ECHINOCOCCOSIS

Echinococcus of spine, Case of, difficult to interpret roent-genologically (ab.), C. Guidotti, May, 645.

EMBOLISM, pulmonary
Roentgen diagnosis of lung embolism (ab.), N. Westermark,
May, 634.

EMBRYOLOGY
Reteroitive

Retroperitoneal cyst with agenesia of kidney, K. Korn-blum and J. A. Ritter, April, 416. EMPHYSEMA

PHYSEMA
Spontaneous mediastinal emphysema, with report of case associated with spontaneous pneumothorax, J. B. Morey and M. C. Sosman, Jan., 19.

and M. C. Sosman, Jan., T.

EMPYEMA
Typhoid empyema: report of case operated upon and cured (ab.), A. C. Neto and J. Finocchiaro, Jan., 119.

ENDOCRINE GLANDS

Guardian Bone changes in primary, L. M. Hurxthal

Hypogonadism, Bone changes in primary, L. M. Hurxthal and H. F. Hare, May, 521.

Radiation therapy and glands of internal secretion (ed.), March, 360. ENEMAS, barium

Barium enemas, Necessity of systematic use of, to disclose tuberculosis (ab.), M. Picard, Jan., 128.

Socialized medicine, Economic status of radiologist under: report on England, S. W. Donaldson, April, 486. ENVIRONMENT

Change of environments of animal cells on their radio-sensitivity. Experimental study on effect of (ab.), Y. Kagami, April, 501.

Roentgen epilation, E. Aronstein, Jan., 95.

Cranial and spinal lesions in epileptic: difficulties of interpretation (ab.), R. Raynaud, A. Huguenin, and H. Tillier, April, 505.

April, 505. Epilepsy, Experience with roentgen therapy in (ab.), M. Sgalitzer, April, 505. Epilepsy, Roentgen therapy of (ab.), W. von Weiser, April, 505.

ERYSIPELAS

Ultra-violet energy, Treatment of erysipelas with, M. E. Knapp, Feb. 195. ESOPHAGOSCOPY

Hiatal hernia (ab.), H. J. Moersch, March, 374.

Carcinoma of esophagus, Studies regarding technic and methods in radiation therapy of (ab.), A. Adam, Feb., 257.

Dysphagia, Hysterical: report of case (ab.), H. W. Schmidt, Feb., 256.

Feb., 256.

Esophagopleural fistula: report of case, J. R. Phillips, Jan., 91.

Bsophagoscopy of importance in general practice, Phases of bronchoscopy and (ab.), V. J. Schwartz, Feb., 250.

Hernia, Esophageal hiatus, with special reference to x-ray diagnosis (ab.), D. Eisen, Feb., 257.

Mega-esophagus and narrowing of terminal portion of esophagus (ab.), C. Bocca, Feb., 257.

Overflow, Lung abscess due to esophageal (ab.), D. A. Sampson, May, 634.

Peptic ulcer of esophagus (ab.), F. Norgaard, May, 636.

Peptic ulcer of esophagus (ab.), J. Terracol, P. Lamarque, and P. Bétoulières, Jan., 121.

Rupture of esophagus from blow on abdomen, C. A. Aldrich and W. E. Anspach, Jan., 93.

Adipose tissue, Roentgen diagnostic importance of, J. Silbermann, Jan., 77.

Fractures of neck of femur, Two-plane direction and range finder for nailing (ab.), G. C. Engel and H. May, Feb.,

Giant-cell tumor ("osteoclastoma") of femur treated with x-rays (ab.), S. Dechambre, E. Dechambre, and J. Nebout, May, 648. FETUS

lateral roentgenogram in, M. J. Hubeny and P. J. Delano, May, 546.
Fetalometry, Roentgenographic pelvimetry and: elimination of errors due to movements between x-ray exposures, W. Fray and W. T. Pommerenke, March, 261.
FEVER THERAPY
Fever therapy in gonococcal infections, W. Bierman and C. L. Levenson, April, 454.
FISTULA
ESODBASONICATION.

Esophagopleural fistula, with report of case, J. R. Phillips, Jan., 91. Gastrocolic fistula, W. Bailey and W. V. Knoll, March,

347. W. Bailey and W. V. Knoll, March, Persistent fecal fistula after appendectomy, Lipiodol in treatment of (ab.), S. N. Mendelsohn and L. H. Schriver, April, 501.

Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131 (138).

FLUOROSCOPY OROSOPY
Myocardial damage, Concurrence of radiologic signs and electrocardiographic changes in (ab.), F. Barth, May, 631. Responsibility of radiologist in training of hospital inten in fluoroscopy (ed.), R. Golden, Feb., 235.

Normal first metatarso-phalangeal joint due to changes in direction of central ray, Variations in x-ray appearance of (ab.), B. S. Holmgren, April, 505.

Os calcis, Fractures of (ab.), D. C. McKeever, April, 505.

Poramen, intervertebral
Pathologic conditions of spine: painful disturbances of intervertebral foramina (ab.), L. A. Hadley, Jan., 124.

FOREIGN BODIES

Propagatory and escophagogeous of importance in general

REIGH BODIES

Bronchoscopy and esophagoscopy of importance in general practice, Phases of (ab.), V. J. Schwartz, Feb., 250.

Common duct stones, Non-operative management of remaining (ab.), R. Best and N. F. Hicken, Feb., 251.

Planigraphy—application to thoracic diagnosis, W. E. Howes, May, 556 (558).
FRACTURES

Actures of the state of the sta 380

380.
Os calcis, Fractures of (ab.), D. C. McKeever, April, 505.
Pathologic fractures (ab.), R. K. Ghormley, C. G. Sutherland, and G. A. Pollock, Feb., 258.
Reduction of fractures under roentgenoscopic control: two instructive examples (ab.), H. Tillier, March, 372.
Scapula, Fracture of neck of (ab.), M. R. Charlton, Feb., 258.

Spontaneous rib fracture among tuberculous, Radiological study of (ab.), C. Sabbione, Jan., 127.

Coccidioides infection (coccidioidomycr sis). II.—Primary type of infection (ab.), E. C. Dickson and M. A. Gifford, April, 509. Lungs in agricultural workers, Occupational diseases of (ab.), R. Faweitt, April, 512.

GALL BLADDER

ulcium carbonate deposits in human gall bladder (ab.), A. T. Cameron, F. D. White, and S. Meltzer, April, A. 505.

505.
Calculus of gall bladder with suppuration, Large (ab.), E. Binet and Dillenseger, Feb., 251.
Cholecystography, Danger of intravenous (ab.), W. Lutz and H. Seyfried, April, 506.
Cholecystography: single-dose versus double-dose methods of administering dye, M. Feldman, Feb., 155.
Common duct stones, Non-operative management of remaining (ab.), R. R. Best and N. F. Hicken, Feb., 251.
Error of technic in administration of tetraiodide with intolerance and prolonged visibility of gall bladder (ab.), Nemours-Auguste, April, 505.
Gallstones, Formation of transparent gas-filled fissures in, and their significance for radiological diagnosis (ab.) Å

and their significance for radiological diagnosis (ab.), Å.

Åkerlund, June, 751. Gas gangrene infections, Treatment of (ab.), J. J. Faust, April, 506.

April, 506.

Gas gangrene, Radiological aspects of early and advanced (ab.), A. Grlli, April, 506.

GASTRITIS. See Stomach, inflammation.

GASTRO-INTESTINAL TRACT

Caucer of stomach, Early diagnosis of (ab.), L. J. Notkin, June, 752.

Cardiogrephy.

June, 752.
Cardiospasm: report of case, M. Golob, April, 481.
Colon disorders, Fundamentals in surgical treatment of (ab.), L. M. Larson, Feb., 254.
Colospasms, Causes and results (ab.), L. Gleize-Rambal, Feb., 255.
Diverticula of digestive tract, Multiple (ab.), G. Ronneaux and Witasse, April, 566.
Diverticulitis of cecum, Solitary (ab.), W. N. Graves, Feb. 258.

Feb. 258.
Diverticulum of duodeno-jejunal angle (ab.), G. Dumont, April, 506.

April, 506.

Duodenum, Diverticulum of (ab.), D. Wheeler, Feb., 258.

Duodenum, Diverticulum of (ab.), D. Wheeler, Feb., 255.

Dyspepsia at various ages: analysis of 4,223 cases, Incidence and causes of chronic (ab.), A. B. Rivers and A. E. M. Ferreira, Feb., 256.

Esophagus, Peptic ulcer of (ab.), F. Norgaard, May, 636.

Gastric lesion produced by posterior pituitary extract (ab.), M. H. Metz, Jan., 125.

Gastrocolic fistula, W. Bailey and W. V. Knoll, March, 347.

Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), F. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumont, J. C. Gastroconic studies (ab.), E. H. Ceither, and M. S. Dumon

Gastrocolic Istuia, W. Bailey and W. V. Knoll, March, 347.

Gastroscopic studies (ab.), E. H. Gaither and J. L. Borland, Jan., 126.

Hemorrhage, Problem of gastroduodenal (ab.), A. M. Snell, May, 636.

Hernia, Esophageal hiatus, with special reference to x-ray diagnosis (ab.), D. Eisen, Feb., 257.

Invagination of pylorus into duodenum, Unusual case of (ab.), L. Galifi, Feb., 255.

Multiple ulcers of stomach and duodenum (ab.), P. Savy, M. Girard, and Z. Khayat, Jan., 121.

Myosarcoma of stomach: report of two cases, L. G. Allen and P. E. Hiebert, May, 567.

Peptic ulcer of esophagus (ab.), J. Terracol, P. Lamarque, and P. Bétoulières, Jan., 121.

Peptic ulcer treated by posterior pituitary extract (ab.), M. H. Metz and R. W. Lackey, Jan., 120.

Radiology of gastro-intestinal tract: value of co-operation (ab.), S. J. Borland, April, 508.

Roentgenologic consideration of gastritis, M. Feldman.

Stomach, Influence of pituitrin on evacuation of (ab.), R. I. Levina, Jan., 126. Stomach, Volvulus of (ab.), P. Chêne and M. Ramadout,

Levina, Jan., Stomach, Volvulus of (ab.), P. Chêne and M. Ramadon, Jan., 125.

Syphilis, Gastric, pseudo-neoplastic type: clinical and radiologic study (ab.), H. Marc and Sire, May, 645.

Syphilis, gastric, Two cases of (ab.), P. A. Blinkenberg, May, 645.

Tuberculosis of intestines in tuberculous anthracosilicosis

May, 645.
Tuberculosis of intestines in tuberculous anthracosilicosis (ab.), R. Charr and A. C. Cohen, Jan., 126.
Tumors of upper pole of stomach (ab.), B. Stenström, Jan., 129.

129.
"Ulcer, large duodenal," Radiologic characteristics of so-called (ab.), D. S. Bartstra, May, 636.
Ulcer of stomach, Double: radiographs and specimen (ab.), V. Paschetta, May, 636.

GEIGER-MÜLLER COUNTER

Geiger-Müller counter: recent instrument in medicine and medical research (ab.), M. L. Weinstein and L. Rovner, April, 501.

Mitogenetic radiation, Present status of, A. Hollaender, April, 404 (408).

April, 404 (408).

GENITO-URINARY TRACT

Bladder, Avoidance of injurious effects on, in radiation therapy of carcinoma of uterus (ab.), T. C. Neeff and F. Hoff, June, 749.

Bladder tumors, Radiological diagnosis of (ab.), W. Sitkowski, June, 749.

Calculi, Differential diagnosis of biliary and urinary (ab.), H. Pons, June, 751.

Chorionepithelioma in male (ab.), E. J. Knoflicek, March, 388.

388

388.
Chorionepithelioma testis, with record of case, Observations of (ab.), S. McDonald, Jr., March, 388.
Cystadenoma in double kidney, Malignant papillary (ab.), N. F. Ockerblad and H. E. Carlson, April, 510.
Dermoid cyst of bladder (ab.), A. Lidzki, June, 749.
Diagnostic problems in surgical kidney disease (ab.), M. Muschat, April, 510.
Dilatation of lower thirds of left ureters, Two cases of cystic (ab.), E. Herskowits, April, 507.
Dilatations of upper urinary tract in children, Non-obstructive (ab.), A. B. Hepler, April, 507.
Embryoma of kidney (Wilms' tumor), ab., W. E. Ladd, April, 510.
Gonococcal infections. Fever therapy in. W. Bierman and

April, 510.

Gonococcal infections, Fever therapy in, W. Bierman and C. L. Levenson, April, 454.

Heminephrectomy in disease of double kidney (ab.), E. Beer and W. H. Mencher, April, 509.

Pyelitis in girls, Late effects of acute (ab.), L. R. Wharton, L. A. Gray, and H. G. Guild, April, 507.

Renal carcinoma: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.

Retroperitoneal cyst with agenesia of kidney, K. Kornblum and J. A. Ritter, April, 416.

Tumors, Renal (ab.), J. C. McClelland and J. R. F. Mills, March, 389.

Ureteric calculus, Radiological aspect of treatment of

March, 389.
Ureteric calculus, Radiological aspect of treatment of (ab.), D. G. Maitland, March, 368.
Urinary prolans in cancer cases (ab.), E. Harvey, Feb., 252. Urology, Low back pain in relation to (ab.), S. F. Wildman, June, 748.

GERMANY

CMANY
Economic status of radiologist under socialized medicine: report on Germany, S. W. Donaldson, March, 351. GLOSSITIS. See Tongue, inflammation. COITER

Hyperthyroidism, Treatment of, with consideration of other of ductless glands as trigger mechanism: based upon observation of 360 cases, I. W. Jenkins, March, 340

(341).
Osteoporosis in hyperthyroidism (ab.), E. C. Bartels and G. E. Haggart, Feb., 249.
Removal of intrathoracic non-toxic nodular goiter, Relief of anginoid pain following (ab.), J. Edeiken and E. Rose, Feb., 259.

exophthalmic

Tracheal stenosis from roentgen therapy (ab.), L. H. Clerf and F. J. Putney, April, 514.

GONADS

Hypogonadism, Bone changes in primary, L. M. Hurxthal and H. F. Hare, May, 521.

GONOCOCCI, infections
Fever therapy in gonococcal infections, W. Bierman and C. L. Levenson, April, 454.

GRANULOMA, malignant. See Lymphogranuloma.

GYNECOLOGY AND OBSTETRICS

GYNECOLOGY AND OBSTETRICS

Gynecology, Radiation therapy in (ab.), S. Mitra, March, 384. Hemorrhagic metritis cured by roentgen irradiation of hypophysis, Case of (ab.), J. Moro and Monmignaut, April, 507.

April, 507.
Metrorrhagia cured by radiotherapy: subsequent preg-nancy (ab.), Dano and Lainé, April, 507.
Obstetrics, Practical employment of radiographic diagnosis in (ab.), P. Brault and A. Tizon. April, 508.
Radium therapy, Development of gynecological, especially

GYNECOLOGY AND OBSTETRICS-Continued

in treatment of non-malignant disease (ab.), C. J. Gauss, May, 642. Uterine hemorrhage, Radiotherapy in non-malignant (ab.), B. Windeyer, May, 631.

HAIR, removal oentgen epilation, E. Aronstein, Jan., 95.

HAND
Melanosarcoma, Three-year cure of case of (ab.), Drevon and Mourgues, March, 389.

HEART and VASCULAR SYSTEM
Aneurysm of aorta, Dissecting: clinical recognition (ab.), A. J. Patek, April, 509.
Aneurysm of heart wall, Instructive case of, with "teetermovement" symptom (ab.), L. Bischoff, June, 746.
Aneurysms of internal carotid artery in cavernous sinus, Saccular (ab.), G. Jefferson, April, 508.
Aortic stenosis, Isolated calcified (ab.), W. F. Friedewald and A. R. Ewing, Feb., 259.
Asbestosis (disc. of G. Levene), Feb., 189.
Carotid sinus syndrome, Use of roentgen therapy in, C. A. Stevenson, Feb., 209.
Circulation in pericardial effusion, Studies of (ab.), H. J.

Stevenson, Feb., 209. Circulation in pericardial effusion, Studies of (ab.), H. J. Stewart, N. F. Crane, and J. E. Deitrick, March, 373. Digitalis on isolated heart, Action of (ab.), L. N. Katz, M. Mendlowitz, and H. A. Kaplan with assistance of K. Jochim and E. Lindner, April, 508. Enlargement, Diagnosis of cardiac (ab.), W. Frey, April,

Source of the control of the control

Heart at puberty, Size, variability, and correlation of (ab.), G. Marzocchi, Feb., 259.

Heart, Radiological examination of (ab.), L. E. Rothstadt, March, 373.

March, 373.

Intrathoracic lesions, Density of central shadow in diagnosis of, L. G. Rigler, March, 316.
Left auricular dilatation in auricular fibrillation, Significance of (ab.), M. L. Sussman and M. T. Woodruff, March, 373.

Pulmonary artery: roentgenographic and roentgen kymographic study, S. Brown, J. E. McCarthy, and A. Fine, Feb., 175.

Radiography of heart, Cross-sectional, G. Danelius, Feb., 700.

Natiography of heart, Cross-sectional, G. Daneinis, Feb., 190.

Radiologic signs and electrocardiographic changes in myocardial damage, Concurrence of (ab.), F. Barth, May, 631.

Radiology in elucidation of hemoptysis, Value of (ab.), F. G. Wood, March, 378.

Sarcoma in peri-myocardium, Primary (ab.), P. Cossio and I. Berconsky, May, 631.

Systolic expansion of heart's ventricles (ab.), A. C. Morelli, April, 508.

HEART, blood supply

X-ray inquiry into genesis of current of venous blood and lymph, K. Mayer, March, 275.

HEMANGIOMA. See Tumors, angioma.

HEMATEMESIS

Stomach, Hematemesis and diaphragmatic hernia of (ab.),

Stomach, Hematemesis and diaphragmatic hernia of (ab.), P. Carnot and A. Lafitte, March, 386.

HEMOCLASTIC CRISIS

Leukopenia, Therapy of x-ray (ab.), C. Carrié, April, 515.

HEMOPHILIA

Joint changes in hemophilia, N. B. Newcomer, May, 573.

Radiology in elucidation of hemoptysis, Value of (ab.), F. G. Wood, March, 378.

HEMORRHAGE Gastroduodenal hemorrhage, Problem of (ab.), A. M. Snell, May, 636. Hemorrhagic disorders, Roentgen treatment of certain (ab.),

L. H. Garland, March, 385.

Radium therapy, Intra-uterine, of hemorrhagic metropathies (ab.), A. Pickhan, May, 641.

Uterine hemorrhage, Radiotherapy in non-malignant (ab.), B. Windeyer, May, 631.

HEMORRHOLDS

Hemorrhoids and ano-rectal angiomas in infants (ab.), A. Bensaude and F. Bertillon, Jan., 123.

Bensaude and F. Bertillon, Jan., 123.

HERNIA, diaphragmatic

Diaphragmatic hernia (ab.), E. M. Jones, March, 373.

Stomach, Hematemesis and diaphragmatic hernia of (ab.),

P. Carnot and A. Lafitte, March, 386.

esophageal hiatus

Esophageal hiatus hernia, with special reference to x-ray diagnosis (ab.), D. Eisen, Feb., 257.

Hiatal hernia (ab.), H. J. Moersch, March, 374.

Hiatal hernia (ab.), H. J. Moetsen, Manager Hip JOINT

Acute arthritis developing in hip joint presenting lesions of post-traumatic coxarthritis (ab.), Lamarque and Bétoulières, March, 374.

Hip joint in children, Deformities of (ab.), C. G. Teall, March, 374.

Sarcoma, Voluminous osteogenic, of left coxofemoral region (ab.), Carteret, Dillenseger, and P. Bertrand, May, 643.

Traumatic dislocation of hip followed by Perthes' disease (ab.), R. R. Goldenberg, March, 375.

HISTOLOGY
Histological tumor variants and their influence upon radiosensitivity, Some, I. A. B. Cathie, April, 425,
Historadiography (ab.), P. Lamarque, April, 501,
HODGKIN'S DISEASE. See Lymphogranuloma.
HORMONES

Menstrual dysfunctions and sterility. Roentgen treatment of: analysis of 108 cases, S. Bruck and J. M. Fruchter, April, 446.

SPITALS
Radiological department in general hospital, Discussion on planning and organization of (ab.), R. S. Paterson, J. S. Fulton, and R. J. Sankey, May, 639-641.
X-ray rentals in hospitals: analysis of current rental costs in hospitals and medical buildings, L. H. Garland, Jan., 46

HYGROMA. See Bursa. HYPERTENSION. See Blood pressure, high. HYPOPHYSIS CEREBRI. See Pituitary Body.

INFANTS

Birth weight and size of thymus shadow in 2,000 new-born, Study of relations between (ab.), S. W. Donaldson, Jan.

126.

Erysipelas with ultra-violet energy, Treatment of, M. E. Knapp, Feb., 195 (196).

Hemorrhoids and ano-rectal angiomas in infants (ab.), A. Bensaude and F. Bertillon, Jan., 123.

Intussusception in infancy and childhood (ab.), G. P. Grigsby and S. E. Kaplan, Jan., 117.

Lipoid pneumonia in infants and children, R. S. Bromer and I. J. Wolman, Jan., 1.

Radiography of infants' chests, Table for use in, H. Geissberger, Jan., 96.

INFECTION

Acute and chronic infance.

BCTION

Acute and chronic inflammatory conditions, Treatment of, by fractional doses of x-ray, H. A. Osgood, March, 311.

Amebic infections of large bowel, Further consideration of roentgen-ray manifestations in, J. C. Bell, March, 332.

Arthritis, New surgical procedure in acute infectious (ab.), H. E. Hipps, Feb., 248.

Coccidioides infection (coccidioidomycosis). II.—Primary type of infection (ab.), E. C. Dickson and M. A. Gifford, April, 509.

Diseases of lungs in agricultural workers. Occupational (ab.)

April, 509.
Diseases of lungs in agricultural workers, Occupational (ab.),
R. Fawcitt, April, 512.
Focal (dental) infection, Diagnosis of, especially by means
of roentgenogram (ab.), W. Praeger, Feb., 255.
Fungus infections, Radiation therapy of (ab.), D. Spangler,
March, 375.
Gas gangerie infections. Treatment of (ab.), J. J. J.

Gas gangrene infections, Treatment of (ab.), J. J. Faust, April, 506.

April, 506. Gas gangrene, Radiological aspects of early and advanced (ab.), A. Grlli, April, 506. Gonococcal infections, Fever therapy in, W. Bierman and C. L. Levenson, April, 454. Infection, Radiation therapy of (ab.), H. G. Reineke, March,

376.
Liver abscess, Pyogenic (ab.), E. L. Eliason, R. B. Brown, and D. P. Anderson, April, 511.
Mastoiditis, Acute (ab.), J. G. Parsons, May, 635.
Otitis media, acute, Evaluation of roentgen irradiation as adjunct in treatment of: preliminary report, A. H. Dowdy, C. A. Heatly, and W. W. Pierce, June, 661.
Peritonitis, acute, and other infections, Roentgen treatment of, with mobile x-ray apparatus, J. F. Kelly and D. A. Dowell, June, 675.
Petrous fir suppuration: report of three cases, Some observations of the property of

Dowell, June, 675.

Petrous tip suppuration: report of three cases, Some observations on (ab.), D. E. S. Wishart, Feb., 256.

Pneumonias, Chronic (ab.), J. G. Scadding, May, 637.

Pulmonary suppuration, Non-putrid (ab.), M. L. Sussman, May, 633.

Pyclitis in girls, Late effects of acute (ab.), L. R. Wharton, L. A. Gray, and H. G. Guild, April, 507.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (152).

Sinus infections, Roentgen therapy of carefully selected, F. M. Hodges and L. O. Snead, June, 669.

Tonsillitis, Roentgen therapy of chronic (ab.), P. Heb, March, 386.

M. Hongilitis, I INFLAMMATION

Acute and chronic inflammatory conditions, Treatment of, by fractional doses of x-ray, H. A. Osgood, March, 311. Arthritis, New surgical procedure in acute infectious (ab.), H. E. Hipps, Feb., 248.
Bronchial stenosis, Rôle of inflammatory, in etiology of bronchiectasis (ab.), P. H. Holinger, June, 749.
Chauffard-Still's disease, Treatment of (ab.), F. LePenne-

Chauffard-Still's disease, Treatment of (ab.), F. Lerenne-tier, March, 385. Erysipelas with ultra-violet energy, Treatment of, M. E. Knapp., Feb., 195. Gastritis, Roentgenologic consideration of, M. Feldman,

June, 726.
Glossitis, Median rhomboid, J. F. Sammet, Feb., 215.

Metritis cured by roentgen irradiation of hypophysis, Case of hemorrhagic (ab.), J. Moro and Monmignaut, April, 507.

April, 507.

Otitis media, acute, Evaluation of roentgen irradiation as adjunct in treatment of: preliminary report, A. H. Dowdy, C. A. Heatly, and W. W. Pierce, June, 661.

Peritonitis, acute, and other infections, Roentgen treatment

of, with mobile x-ray apparatus, J. F. Kelly and D. A. Dowell, June, 675.
Radiation therapy in acute and chronic inflammatory conditions (ab.), H. J. Ullmann, May, 631.
Roentgen therapy for inflammatory conditions, Dosage and method, A. U. Desjardins, June, 699.
Roentgen therapy of inflammatory conditions, Fundamental principles of (ab.), W. von Weiser, Feb., 259.
Roentgen treatment of inflammatory diseases (ab.), G. Clement, May, 632.
Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131
INTESTINES
Calcified fecalith in appendix: report of case of partial

ESTIMES
Calcified fecalith in appendix: report of case of acute sup-purative appendicitis perforated by calcified fecalith (ab.), H. J. Shelley, April, 502. Chronic intestinal amebiasis, Diagnosis of (ab.), M. Poirot,

purative appendictus personates by section of policy. H. J. Shelley, April, 502.
Chronic intestinal amebiasis, Diagnosis of (ab.), M. Poirot, March, 376.
Colitis, Right-sided (regional), ab., B. B. Crohn and A. A. Berg, Jan., 117.
Colon disorders, Fundamentals in surgical treatment of (ab.), L. M. Larson, Feb., 254.
Colon, Insufflation of, as method of diagnosis in gastrocolic fistula following post-operative jejunal peptic ulcer (ab.), L. Weigel, May, 637.
Diverticulitis and diverticulosis of colon, Prognosis of (ab.), P. W. Brown and D. M. Marcley, Feb., 254.
Enteritis, Regional (ab.), J. V. Prouty, March, 376.
Intestinal obstruction (ab.), F. Christopher, Jan., 117.
Intestinal obstruction, Acute (ab.), B. H. Nichols, Jan., 118.
Intussusception in infancy and childhood (ab.), G. P. Grigsby and S. E. Kaplan, Jan., 117.
Invagination of colon, Case of genuine (ab.), B. S. Holmgren, Feb., 254.
Large bowel, Further consideration of roentgen-ray manifestations in amebic infections of, J. C. Bell, March, 332.
Primary tumors of duodenum and jejunum and lymphogranuloma of duodenum (ab.), M. Cace, April, 519.
Right quadrant, Problems presented by lesions of (ab.), O. C. Pickhardt and H. A. Raísky, March, 376.
Stenoses and false stenoses of intestine in course of grave anemias, J.-C. Roux and J. Mialaret (ab.), Jan., 117.
Tuberculosis of intestines in tuberculous anthracosilicosis (ab.), R. Charr and A. C. Cohen, Jan., 126.
Volvulus of sigmoid megacolon, Roentgenological diagnosis of, with report of two cases, M. R. Hall (ab.), Jan., 117.
tuberculosis of intestines in tuberculous anthracosilicosis Barium enemas to disclose latent intestinal tuberculosis in cases with pulmonary tuberculosis.

Barium enemas to disclose latent intestinal tuberculosis in cases with pulmonary tuberculosis, Necessity of systematic use of (ab.), M. Picard, Jan., 128.

INTUSSUSCEPTION

INTUSSUSCEPTION
Intussusception in infancy and childhood (ab.), G. P. Grigsby and S. E. Kaplan, Jan., 117.
Invagination of colon, Case of genuine (ab.), B. S. Holmgren, Feb., 254.
Invagination of pylorus into duodenum, Unusual case of (ab.), L. Galifi, Feb., 255.
IODINE and IODINE COMPOUNDS
Acute iodism following intravances and contact (ab.).

Acute iodism following intravenous pyelography (ab.), Lamarque, Guibal, and Bétoulières, April, 504. Tetraiodide, Error of technic in administration of, with intolerance and prolonged visibility of gall bladder (ab.), Nemours-Auguste, April, 505.

Very control of the c

JOINTS

Adipose tissue, Roentgen diagnostic importance of, J. Silber-mann, Jan., 77 (80). Air injection of joints, Technic of (ab.), R. Meyer-Wildisen,

Feb., 260.

Kanges in hemophilia, Joint, N. B. Newcomer, May, 573.

Normal first metatarso-phalangeal joint due to changes in direction of central ray, Variations in x-ray appearance of (ab.), B. S. Holmgren, April, 503.

Radiographic visualization of "true joint fissure," Conditions responsible for (ab.), W. Magnusson, Feb., 260.

Syphilis of bones and joints (ab.), F. A. Jostes and M. B. Roche, May, 645.

tuberculosis in

Bone tuberculosis, Unusual manifestations of, B. P. Widmann, H. W. Ostrum, and R. F. Miller, April, 434 (435). Feb., 260

KELOIDS

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (150).

KIDNEYS

NNEYS
Adipose tissue, Roentgen diagnostic importance of, J. Silbermann, Jan., 77 (85).
Agenesia of kidney, Retroperitoneal cyst with, K. Kornblum and J. A. Ritter, April, 416.
Carcinoma, Renal: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.
Cystadenoma in double kidney, Malignant papillary (ab.), N. F. Ockerblad and H. E. Carlson, April, 510.

Diagnostic problems in surgical kidney disease (ab.), M. Muschat, April, 510.
Embryoma of kidney (Wilms' tumor), ab., W. E. Ladd,

Embryoma o April, 510.

Embryoma of kidney (Wilms' tumor), ab., W. E. Ladd, April, 510.

Heminephrectomy in disease of double kidney (ab.), E. Beer and W. H. Mencher, April, 509.

Kidneys, stunted growth, rickets, and disturbed cystine metabolism, Syndrome consisting of affections of (ab.), G. O. E. Lignac, March, 376.

Nephrolithiasis, Late results in conservative management of (ab.), J. T. Priestley and W. F. Brasach, March, 377.

Papilloma of kidney pelvis, Roentgenologic demonstration of (ab.), H. Keilhack, March, 377.

Perirenal fibrosarcoma (ab.), H. H. Howard and H. I. Suby, March, 377.

Perirenal insufflation (ab.), W. H. Mencher, Jan., 121.

Pyelitis in girls, Late effects of acute (ab.), L. R. Wharton, L. A. Gray, and H. G. Guild, April, 507.

Renal tuberculosis, Has excretory urography replaced retrograde pyelography in diagnosis of? (ab.), J. L. Emmett and W. F. Braasch, Jan., 128.

Tuberculosis, Renal (ab.), C. D. Donahue, May, 646.

Tumors, Renal (ab.), J. C. McClelland and J. R. F. Mills, March, 389.

Tumors, Renal: review of 130 cases (ab.), H. A. Soloway, March, 388.

Ureteric calculus, Radiological aspect of treatment of (ab.), D. G. Maitland, March, 368.

Urinary calculus, Brief review of 426 consecutive cases of (ab.), H. P. Winsbury-White, Feb., 251.

KNBE JOINT

Joint space at knee, Roentgen image of (ab.), R. Lohr and W. Hellpap, April, 511.

John 1 John 1 John 20 John 20

Heart's ventricles, Systolic expansion of (ab.), A. C. Morelli, April, 508.

Normal colon, Roentgen kymography of: defecation in man (ab.), R. A. Rendich and L. A. Harrington, March, 371.

Pulmonary artery; roentgenographic and roentgen kymographic study, S. Brown, J. E. McCarthy, and A. Fine, Feb., 175.

Roentgen kymographic studies of aneurysms and medias-tinal tumors (ab.), W. G. Scott and S. Moore, March, 377.

LARYNX
Carcinoma in pharynx and larynx. Treatment of, and results (ab.), L. Colledge, March, 370.
Carcinoma of larynx and hypopharynx, Results of roentgen and radium therapy in (ab.), R. Müller, April, 503.
Laryngocele (ab.), W. L. Simpson, May, 632.
Physiology and pathology of larynx, New applications of planigraphy to (ab.), Canuyt, Gunsett, and Greiner, May, 637.

Radiography of larynx, anterior view, and technic (ab), R. Ledoux-Lebard, J. Garcia-Calderon, and A. Djian, May,

U32.
Tumors of larynx (ab.), F. A. Figi, May, 632.
LEUKEMIA
Chronic leukemia: study of incidence and factors influencing duration of life (ab.), B. S. Leavell, Jan., 118.
Pregnancy in case of lymphatic leukemia, Roentgen treatment of leukemia, with report of, E. K. Harrison and R. LEUKOPENIA. See Hemoclastic crisis.
LIPIODOL
Lipiodol in treatment

Lipiodol in treatment of persistent fecal fistula after appendectomy (ab.), S. N. Mendelsohn and L. H. Schriver,

dectomy (ab.), S. N. Mendelsohn and L. H. Schriver, April, 501. Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131.

Application of, J. V. Blady and A. F. Hocker, Feb., 131.

LIPS, cancer

Cancer, Radium treatment of lip, at Radiological Clinic, Lund, Sweden, Review of 20 years' (ab.), A. Bergendal, Jan., 123.

Carcinoma of skin and lip, Early results of near distance radiation in (ab.), A. Hrabovszky, Feb., 254.

Carcinoma of skin and lip, Radium therapy of (ab.), J. Körbler, March, 383.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (153).

LIVER.

Polycythemia yera Hepatic complications in (ab.), A. R.

Polycythemia vera, Hepatic complications in (ab.), A. R. Sohval, April, 511.
Pyogenic liver abscess (ab.), E. L. Eliason, R. B. Brown, and D. P. Anderson, April, 511.
LUNGS

Abscesses, Diagnosis of extrapleural (ab.), G. Skarby, May,

Abscess due to esophageal overflow, Lung (ab.), D. A. Samp-

Abscess due to esophageal overflow, Lung (ab.), D. A. Sampson, May, 634.
Abscess of lung, Acute aerobic (non-putrid) (ab.), H. Neuhoff and A. S. W. Touroff, April, 512.
Acetylene gas, Roentgenological changes in lungs caused by (ab.), A. Renander, Jan., 119.
Anatomical structure of lungs, New conception of: pulmonary zones: clinical and radiological application (ab.), Pierret, P. Coulouma, A. Breton, and L. Devos, Jan., 119.
Artificial pneumothorax in children (ab.), P. F. Fitzpatrick, April, 513.
Asbestosis (ab), J. V. Sparkes, June, 747.

LUNGS-Continued

Atelectases of lungs and their sequences, Acute and chronic (ab.), R. Pohl, March, 379. lung": radiographic study (ab.), C. Roubier,

May, 634. Bronchogram

Bronchographic observation of re-expanded lungs following artificial pneumothorax, G. Zorzoli, May, 638.

Bronchopneumonia, Delayed resolution in (ab.), F. N. Cole, March 382

Bronchopneumonia, Delayed resolution in (ab.), F. N. Cole, March, 382.

Bronchoscopy and esophagoscopy of importance in general practice, Phases of (ab.), V. J. Schwartz, Feb., 250.

Calcifications within lungs, Significance of (ab.), D. A. Rhinehart, March, 380.

Carcinoma, Bronchogenic: study of eight autopsied cases, W. E. Howes and S. G. Schenck, Jan., 8.

Carcinoma from pathologic and radiologic points of view, Primary bronchogenic (ab.), W. L. Mattick and E. M. Burke, Feb., 252.

Carcinoma of lung, Primary (ab.), M. O. Klotz, Feb., 252.

Carcinoma of lung, Roentgenographic images in primary, L. A. Hochberg, June, 713.

Childhood tuberculosis, Certain significant aspects of (ab.), R. M. Tyson, Jan., 127.

Cysts, Congenital lung: air expansile types (ab.), W. W. Anderson, May, 634.

Diseases of lungs in agricultural workers, Occupational (ab.), R. Fawcitt, April, 512.

Division of lung segments in right upper lobe (ab.), E. Behr and E. Huizinga, May, 635.

Dusts from lungs, Roentgenologic studies of excretion of (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, March, 384.

Embolism, Roentgen diagnosis of lung (ab.), N. Westermerk, March, 384. Roentgen diagnosis of lung (ab.), N. Wester-

Embolism, Roentgen diagnosis of lung (ab.), N. Westermark, May, 634.

Emphysema, Spontaneous mediastinal, with report of case associated with spontaneous pneumothorax, J. B. Morey and M. C. Sosman, Jan., 19.

Encapsulated left diaphragmatic pleurisy, Roentgen image of (ab.), H. Morr, March, 379.

Intrathoracic lesions, Density of central shadow in diagnosis of, L. G. Rigler, March, 316.

Lipoid pneumonia in infants and children, R. S. Bromer and I. J. Wolman, Jan., I.

Lobar pneumonia, Resolving, in adults simulating tuberculosis in roentgengram (ab.), S. Cohen, March, 382.

Lobar pneumonia, Roentgen therapy of (ab.), E. V. Powell, March, 382.

Massive a telectasis following cyclopropane anesthesia:

March, 382.

Massive atelectasis following cyclopropane anesthesia: report of cases and theory of cause and prevention (ab.), O. R. Jones and G. E. Burford, March, 378.

Osteo-arthropathy, pulmonary, Carcinoma of thymus, with marked, E. R. Miller, June, 63. Scadding, May, 637.

Pneumothorax, Contralateral spontaneous, complicating artificial pneumothorax (ab.), J. B. Andosca, April, 513.

Pneumothorax, Diagnostic, S. Schunt, Feb., 198.

Pneumothorax, monolateral therapeutic, Regression of contralateral tuberculous lesions after (ab.), V. de Luca, May, 638.

Primary cancer of lung (ab.), D. S. King, April, 513.

мау, 638.

Primary cancer of lung (ab.), D. S. King, April, 511.

Primary carcinoma of lung: clinical study of 160 cases in five years (ab.), A. Arkin, March, 379.

Primary neoplasms of lung, Radiation therapy in (ab.), R. E. Myers, March, 379.

Pulmonary artery: roentgenographic and roentgen kymographic study, S. Brown, J. E. McCarthy, and A. Fine, Feb., 175.

Pulmonary asbestosis. IV.—Asbestos body and similar objects in lung (ab.), K. M. Lynch, March, 380.

Pulmonary cyst with formation of separated peripheral shadows, Rapid evolution of (ab.), Brun, J. De Beaujeu, and Bège, April, 512.

Pulmonary cysts and emphysematous bullæ, Pathological physiology of (ab.), N. L. Kaltreider and W. W. Fray, May, 633.

May, 633. ulmonary [valve] in fibrothorax, Relative insufficiency of (ab.), N. Cavarozzi, Jan., 119. ulmonary pneumocyst: report of enormous solitary cyst in healthy adult female (ab.), G. Cheney and L. H. Gar-land, March, 378.

Pulmonary stratigraphy, Practical (ab.), C. Gaillard, June, 747. Pulmonary tuberculosis, Spontaneous cure of some forms of (ab.), O. Maestri, April, 519.

Radiographic studies of excretion of dusts from lungs (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, May, 635.

Radiography, Diagnostic value of pulmonary, in primary tuberculous angina: insufficiency of radioscopy (ab.), L. Weigel, May, 633.

Radiological disappearance of cavities immediately following phrenico-exeresis and their re-appearance after variable lapse of time (ab.), V. Basunti, April, 518.

Radiology in elucidation of hemoptysis, Value of (ab.), F. G. Wood, March, 378.

Respiratory efficiency, Tests of, and their correlation with radiological appearances in lungs (ab.), E. M. Killick,

Roentgenography of pulmonary tuberculosis (ab.), H. E. Potter, April, 518.

Silicosis and carcinoma of lung, Association of (ab.), M. O.

Silicosis and carenoma or lung, association of (ab.), M. O. Klotz, May, 634.
Silicosis, Factors which determine diagnosis of (ab.), C. L. Sutherland, May, 643.
Silicosis in grinders (ab.), J. L. A. Grout, April, 516.
Silicosis in pottery industry (ab.), J. F. Bromley, April, 516.
Silicosis in pottery workers (ab.), R. A. K. Harper, April, 516.

516.
Silicosis, Study of (ab.), P. B. Matz, March, 384.
Spontaneous rib fracture among tuberculous, Radiological study of (ab.), C. Sabbione, Jan., 127.
Stratigraphy of lungs and bones (ab.), Delaborde, June, 746.
Suppuration, Non-putrid pulmonary (ab.), M. L. Sussman, May, 633.

May, 633.

Thoracic diagnosis, Planigraphy—application to, W. E.
Howes, May, 556.

Tuberculosis, Diagnosis and management of latent, suspected, and early clinical (ab.), H. W. Hetherington,
April, 518.

April, 518.
Tuberculosis, Direct roentgen therapy through small fields of pulmonary (ab.), G. Faldella, April, 518.
Tuberculosis of intestines in tuberculous anthracosilicosis (ab.), R. Charr and A. C. Cohen, Jan., 126.
Tuberculous bronchogenic dissemination, Necessity for repeated roentgen investigation in late manifestations of (ab.), H. Bartsch and S. Zollner, March, 379.
Tuberculous pneumonia (ab.), J. W. Strayer, March, 382.
Tumor simulating subacromial bursitis, Superior pulmonary sulcus (ab.), L. Nathanson, L. A. Hochberg, and R. Perlman, March, 388. Tumor simulating subacromial bursitis, Superior pulmonary sulcus (ab.), L. Nathanson, L. A. Hochberg, and R. Perlman, March, 388.

Typhoid empyema: report of case operated upon and cured (ab.), A. C. Neto and J. Finocchiaro, Jan., 119.

Ulcerations of lung and pulmonary cavities, Tuberculous (ab.), B. Faccini, May, 634.

Unilateral pneumothorax, Effect of, on pre-existing tuberculous lesions in opposite lung (study of 200 cases), ab., U. Meller and E. Conte, April, 513.

LYMPH

X-ray inguire: interesting the content of the co

X-ray inquiry into genesis of current of venous blood and lymph, K. Mayer, March, 275.

LYMPH NODES

LYMPH NODES

Cervical lymph nodes in intra-oral carcinoma: surgery or irradiation? (ab.), J. J. Duffy, March, 370.

LYMPHATIC SYSTEM

Lymphatics (ed.), April, 491.

Roentgen treatment of leukemia, with report of pregnancy in case of lymphatic leukemia, E. K. Harrison and R. J. Reeves, March, 284.

LYMPHOBLASTOMA. See Lymphogranuloma.

LYMPHOGRANULOMA.

Duodenum, Primary tumors of duodenum and jejunum and lymphogranuloma of (ab.), M. Cace, April, 519.

Hodgkin's disease of bones (ab.), H. S. Lieberman, March, 367.

367.
Irradiation of cutaneous manifestations of lymphoblastoma (ab.), R. G. Pett, April, 520.
Malignant granulomas, Treatment of, by radiotherapy (ab.), R. Gilbert, May, 648.
Malignant granulomatosis, Radiculomedullary compression in course of (ab.), J. Froment, P. Croizat, and R. Masson, Jan., 125.

Acute mastoiditis (ab.), J. G. Parsons, May, 635.

MAXILLARY SINUS. See Antrum.

MEDALIST

Belot, J., Presentation of medal to, in Paris, Feb., 239.
MEDIASTINUM

Spontaneous mediastinal emphysema, with report of case associated with spontaneous pneumothorax, J. B. Morey and M. C. Sosman, Jan., 19.

MEDICINE MEDICINE

Who shall practise medicine? M. F. Cahal, May, 611.

X-ray in general practice, Value of (ab.), C. G. Sutherland,
May, 646.

MELANIN, pigmentation

Melanosis coli (ab.), L. A. Buie, May, 642.

MELANOMA. See Tumors, melanoma.

MELANOMA. See Tumors, melanoma. MELANOSIS. See Melanin, pigmentation.

MENINGES, tumors
Meningiomas, Anterior basal (ab.), W. R. Henderson, Jan., 120.
Meningiomas: from roentgenological viewpoint (ab.), C. W. Schwartz, March, 389.
MENISCUS. See Semilunar cartilage.
MENSTRUATION

Menstrual dysfunctions and sterility, Roentgen treatment of: analysis of 108 cases, S. Bruck and J. M. Fruchter,

Organia irradiation, Recovery following human, H. W. Jacox, May, 538. MESOTHORIUM

Experimental production of sarcoma with radium and meso-thorium (ab.), E. Uehlinger and O. Schürch, March, 383.

METRORRHAGIA. See Uterus, hemorrhage. MIKULICZ' DISEASE Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131 (139).

MILK, vitamin content
Milk, Effect of ultra-violet rays on vitamin C content of
(ab.), H. Schroeder, Jan., 130.

MOUTH MUUTH
Intra-oral carcinoma, Cervical lymph nodes in: surgery or
irradiation? (ab.), J. J. Duffy, March, 370.
Lejomyoma of oral cavity (ab.), A. P. Stout, March, 387.
MUCOUS MEMBRANE

Ulcers of mucous membranes, Aloe vera in treatment of radiation, F. B. Mandeville, May, 598.

MULTIPLICITY

LTIPLICITY
Carcinoma and venous thrombosis: frequency of association of carcinoma in body or tail of pancreas with multiple venous thrombosis (ab.), E. E. Sproul, June, 752.
Multiple heteromorphologic malignant tumors of uterus, H. W. Jacox, G. Major, and M. R. Baker, Jan., 51.
Primary malignant ossions, Occurrence of two or more, J. J.

Collins, April, 462.

MYOSARCOMA. See Sarcoma, myosarcoma.

NECK
Carotid sinus syndrome, Use of roentgen therapy in, C. A.
Stevenson, Feb., 209.
Cystic hygroma of neck (ab.), B. L. Fleming, Jan., 129.
NERVOUS SYSTEM

Carotid sinus syndrome, Use of roentgen therapy in, C. A. Stevenson, Feb., 209.

NITROGEN

Kruss, high voltage, in nitrogen, Scattering and photo-electric absorption of (ab.), H. C. Trueblood and D. H. Loughridge, May, 637.

Broken noses, One hundred (ab.), J. W. Gerrie, March, 380,

Radiosensitivity and recurrent growth in Obelia, P. S. Henshaw, April, 466.

OBITUARY

shaw, April, 490.

OBITUARY

Béclère, Dr. Antoine, April, 493.

Béclère, Antoine (1836-1939), A. U. Desjardins, May, 622.

Childs, Samuel Beresford, J. S. Bouslog, Feb., 239.

Cleghorn, Charles G., April, 495.

Jaches, Leopold, Marcy L. Sussman, April, 493.

Jackson, Byron H., June, 744.

Phillips, Clyde C., April, 493.

Schmitz, Henry, May, 625.

Schmitz, Henry, Edward L. Jenkinson, June, 743.

Wilkinson, Boyd E., May, 625.

ODONTOID. See Atlas and axis.

OILS, liver oils

Radiodermatitis and active ulceration, Several cases of, treated and cured by halibut liver ointment (ab.), Belot, Nahan, and Marquis, April, 514.

OPTIC CANAL

Radiography of optic canal, Simple procedure for (ab.), A.

Radiography of optic canal, Simple procedure for (ab.), A. Bardy, Feb., 248.

ORTHOPEDICS

Pain in lower back, Orthopedic aspects of (ab.), L. W. Breck, Feb., 249.

OS CALCIS. See Calcaneum.

Luctic osteitis simulating malignant disease (ab.), A. H. Ungerman, W. H. Vicary, and W. W. Eldridge, April, 517. OSTEITIS DEFORMANS

Paget's disease with diffuse involvement of small bones of extremities, Generalized form of (ab.), P. Harvier, J. Mallarmé, and G. Ledoux-Lebard, Feb., 250.

OSTEO-ARTHRITIS
Vertebral osteo-arthritis due to Brucella melitensis (ab.), H. Duclos, April, 517.

OSTEO-ARTHROPATHY
Pulmonary osteo-arthrical descriptions.

OSIEG-ARTHROPATHY
Pulmonary osteo-arthropathy, Carcinoma of thymus, with
marked E. R. Miller, June, 651.
OSTEOCHONDRITIS deformans juvenilis
Tibia vara, Adolescent, J. A. Siegling and J. B. Gillespie,
April, 483.

April, 483.
Traumatic dislocation of hip followed by Perthes' disease (ab.), R. R. Goldenberg, March, 375.
OSTEOGENESIS IMPERFECTA. See Bones, fragility.

OSTEOMA. See under Tumors.
OSTEOMYELITIS
Spine, Acute infective osteomyelitis of (ab.), P. Turner,
Jan., 124.

OSTEOPERIOSTITIS

Almost total osteoperiostitis associated with hypertrophy of palpebral tarsi, skin of face and extremities, Radiologic aspects of: new syndrome (ab.), J. N. Roy and A. Jutras, April, 502.

Arthritis, New surgical procedure in acute infectious (ab.), H. E. Hipps, Feb., 248.

OTITIS MEDIA

Acute otitis media, Evaluation of roentgen irradiation as adjunct in treatment of: preliminary report, A. H. Dowdy, C. A. Heatly, and W. W. Pierce, June, 661. Septic patient with otitis media, Management of (ab.), J. H.

Maxwell, Jan., 120. OTORHINOLARYNGOLOGY Oto-rhino-laryngological cancer by radiations, Indications and results of treatment of (ab.), L. Eloy, Feb., 253. OVARY

Human ovarian irradiation, Recovery following, H. W. Jacox, May, 538.

OXYCEPHALY. See Acrocephaly.

Tests of respiratory efficiency and their correlation with radiological appearances in lungs (ab.), E. M. Killick, April, 511,

PAGET'S DISEASE of bones. See Osteitis deformans. PALATE

Tumors of hard palate, Mixed (ab.), F. T. Hill, March, 389.

PANCREAS

Carcinoma and venous thrombosis: frequency of association of carcinoma in body or tail of pancreas with multiple venous thrombosis (ab.), E. E. Sproul, June, 752.
Enlargement of pancreas, Characteristic duodenal deformity in cases of different kinds of peri-vaterial (ab.), N. Frostberg, March, 381.
Roentgen diagnosis of diseases of pancreas (ab.), R. Pohl, March, 381.
PAPILLOMA. See Tumors, papilloma.
PARALYSIS, spinal
Paraplegia from erosion of vertebral column by large thoracic aneurysm, M. J. Hubeny and P. J. Delano, Feb., 171.
PARAPLEGIA. See Paralysis, spinal.
PAROTID GLAND
Radiography of parotid duct, L. W. Paul, May, 609.
Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131.
PAROTITIS
PAROTITIS

Parotid gland, Application of sialography in non-neoplastic diseases of, J. V. Blady and A. F. Hocker, Feb., 131. PELVIMETRY

PELVIMETRY
Obstetrics, Practical employment of radiographic diagnosis in (ab.), P. Brault and A. Tizon, April, 508.
Roentgenographic pelvimetry and fetalometry: elimination of errors due to movements between x-ray exposures, W. W. Fray and W. T. Pommerenke, March, 261.
Roentgen-ray pelvimetry (ab.), C. T. Hayden, Jan., 120.
X-ray velvimetry (ab.), A. Orley, Jan., 120.
PEPTIC ULCER

Double uleer of stomach: radiographs and specimen (ab.), V. Paschetta, May, 636. Esophagus, Peptic uleer of (ab.), F. Norgaard, May, 636. Gastroduodenal hemorrhage, Problem of (ab.), A. M. Snell,

Bsophagus, Fepule uncer of (ab.), A. M. Snell, May, 636.

May, 636.

Internal medical treatment of gastric and duodenal ulcers, Limitations of (ab.), H. Müller, March, 381.

Jejunal peptic ulcer, Insufflation of colon as method of diagnosis in gastrocolic fistula following post-operative (ab.), L. Weigel, May, 637.

Multiple ulcers of stomach and duodenum (ab.), P. Savy, M. Girard, and Z. Khayat, Jan., 121.

Peptic ulcer based on necropsy records, Study of (ab.), S. A. Portis and R. H. Jaffé, Jan., 120.

Peptic ulcer of esophagus (ab.), J. Terracol, P. Lamarque, and P. Bétoulières, Jan., 121.

Peptic ulcer treated by posterior pituitary extract (ab.), M. H. Metz and R. W. Lackey, Jan., 120.

Perforated peptic ulcer, Late results of surgical treatment in (ab.), J. V. Cable, March, 381.

Radiologic characteristics of so-called "large duodenal ulcer" (ab.), D. S. Bartstra, May, 636.

PERITONITS

Acute peritonitis and other infections, Roentgen treatment

PERITONITIS

Acute peritonitis and other infections, Roentgen treatment of, with mobile x-ray apparatus, J. F. Kelly and D. A. Dowell, June, 675.

PERTHES DISEASE

Tibia vara, Adolescent, J. A. Siegling and J. B. Gillespie, April, 483. See also Osteochondritis deformans juvenilis.

Carcinoma in pharynx and larynx, Treatment of, and results (ab.), L. Colledge, March, 370.

Carcinoma of hypopharynx, Results of radiation therapy in (ab.), E. Bandhauer, Feb., 262.

Carcinoma of larynx and hypopharynx, Results of roentgen and radium therapy in (ab.), R. Müller, April, 503.

PHRENICO-EXERESIS

Radiological disappearance of cavities immediately follow-ing phrenico-exeresis and their re-appearance after vari-able lapse of time (ab.), V. Basunti, April, 518.

PHYSICAL THERAPY
Fever therapy in gonococcal infections, W. Bierman and C. L. Levenson, April, 454.

Roentgen radiation from tube actuated by Van de Graaf generator, Physical measurements on, J. C. Hudson, May, 530.

PITRESSIN Radiography after injection of pitressin, Several cases of: experimental proofs (ab.), P. C. Smyrniotis, Jan., 122.

PITUITARY BODY Hypophysis, Case of hemorrhagic metritis cured by roent-gen irradiation of (ab.), J. Moro and Monmignaut, April 507.

preparations
Peptic ulcer treated by posterior pituitary extract (ab.),
M. H. Metz and R. W. Lackey, Jan., 120.

PITUITARY BODY, preparations-Continued

Pituitrin on evacuation of stomach, Influence of (ab.), R. I. Levina, Jan., 126.

I. Levina, Jan., 126.
Posterior pituitary extract, Gastric lesion produced by (ab.), M. H. Metz, Jan., 125.
roentgenography
X-ray examination of sella turcica in sagittal positions, Value of, P. L. Fariñas, April, 411.

PLACENTA PREVIA
Diagnosis of placenta previa, Roentgenologic: indirect placentography (ab.), W. H. Ude, J. A. Urner, and F. O. Robbins, June, 749.

PLANIGRAPHY
Computation of dimensions in planigraphy with mathe-

(NIGRAPHY)
Computation of dimensions in planigraphy with mathematical instruments, D. H. Drummond and W. W. Schmela, May, 550.
Image formation, Fundamental property of planigraphic (ab.), R. H. De Waard, May, 637.
Laryax, New applications of planigraphy to physiology and pathology of (ab.), Canuyt, Gunsett, and Greiner, May, 637.

Thoracic diagnosis, Planigraphy—application to, W. E. Howes, May, 556.

PLEURISY

Encapsulated left diaphragmatic pleurisy, Roentgen image of (ab.), H. Morr, March, 379.

PNEUMOCONIOSIS

SUMOCONIOSIS

Pulmonary asbestosis. IV.—Asbestos body and similar objects in lung (ab.), K. M. Lynch, March, 380.

Tuberculosis of intestines in tuberculous anthracosilicosis (ab.), R. Charr and A. C. Cohen, Jan., 126.

PNEUMONIA

Bronchopneumonia, Delayed resolution in (ab.), F. N. Cole, March, 382.

Cole, March, 382.
Chronic pneumonias (ab.), J. G. Scadding, May, 637.
Intrathoracic lesions, Density of central shadow in diagnosis of, L. G. Rigler, March, 316 (318).
Lipoid pneumonia in infants and children, R. S. Bromer and I. J. Wolman, Jan., I.
Lobar pneumonia, Resolving, in adults simulating tuberculosis in roentgenogram (ab.), S. Cohen, March, 382.
Lobar pneumonia, Roentgen therapy of (ab.), E. V. Powell, March, 382.
Roentgen treatment of acute peritonitis and other infections.

March, 382.

Roenigen treatment of acute peritonitis and other infections with mobile x-ray apparatus, J. F. Kelly and D. A. Dowell, June, 675.

Tuberculous pneumonia (ab.), J. W. Strayer, March, 382.

PNEUMONITIS

PNEUMONITIS

Thoracic diagnosis, Planigraphy—its application to, W. E. Howes, May, 556 (565).

PNEUMOTHORAX

Artificial pneumothorax, Bronchographic observation of reexpanded lungs following (ab.), C. Zorzoli, May, 638.

Artificial pneumothorax in children (ab.), P. F. Fitzpatrick, Advided 1513.

April, 513.

Carcinoma of thymus, with marked pulmonary osteoarthropathy, E. R. Miller, June, 651 (655).

Contralateral spontaneous pneumothorax complicating artificial pneumothorax (ab.), J. B. Andosca, April, 513.

Diagnostic pneumothorax, S. Schnur, Feb., 198.

Emphysema, Spontaneous mediastinal, with report of case associated with spontaneous pneumothorax, J. B. Morey and M. C. Sosman, Jan., 19.

Monolateral therapeutic pneumothorax, Regression of contralateral tuberculous lesions after (ab.), V. de Luca, May, 638.

638.
Thoracic diagnosis, Planigraphy—its application to, W. E. Howes, May, 556 (561).
Unilateral pneumothorax, Effect of, on pre-existing tuberculous lesions in oposite lung (study of 200 cases), ab., U. de Michelis and E. Conte, April, 513.

POISON and POISONING
Radium poisoning and tolerance dose of radium, Researches in problem of, B. Rajewsky, Jan., 57.

POLYCYTHEMIA
Course of polycythemia (ab.). N. Rosenthal and F. A. Researches of the problem of

Course of polycythemia (ab.), N. Rosenthal and F. A. Bas-sen, April, 502. Hepatic complications in polycythemia vera (ab.), A. R. Sohval, April, 511.

Diagnosis of pregnancy, Plea for more frequent use of lateral roentgenogram in, M. J. Hubeny and P. J. Delano, May, 546.

546.
Metrorrhagia cured by radiotherapy: subsequent pregnancy (ab.), Dano and Lainé, April, 507.
Obstetrics, Practical employment of radiographic diagnosis in (ab.), P. Brault and A. Tizon, April, 508.
Pregnancy in case of lymphatic leukemia, Roentgen treatment of leukemia, with report of, E. K. Harrison and R. J. Reeves, March, 284.
PROSTATE
Carcingma of prostate, Metastages from accept (ab.), O. S.

Carcinoma of prostate, Metastases from occult (ab.), O. S.
Culp, April, 513.
Opacity in prostate, Case of large (ab.), F. Bernasconi, C.
Viallet, and R. Marchioni, April, 513.
Sarcoma of prostate and adjacent retrovesical structures
(ab.), E. Hess, April, 513.

PROSTIGMIN

bdominal roentgenography, Use of prostigmin as prepara-tion for (ab.), M. J. Farrell, Jan., 123.

PRURITUS ANI

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (152).

Acute pyelitis in girls, Late effects of (ab.), L. R. Wharton, L. A. Gray, and H. G. Guild, April, 507.

PYELOGRAPHY

PYELOGRAPHY

Diagnostic problems in surgical kidney disease (ab.), M. Muschat, April, 510.

Embryoma of kidney (Wilms' tumor), ab., W. E. Ladd, April, 510.

Intravenous pyelography. Acute iodism following (ab.), Lamarque, Guibal, and Bétoulières, April, 504.

Radiological aspect of treatment of ureteric calculus (ab.), D. G. Maitland, March, 368.

Renal carcinoma: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.

Renal tuberculosis, Has exerctory urography replaced retrograde pyelography in diagnosis of? (ab.), J. L. Emmett and W. F. Brausch, Jan., 128.

Ureters, Two cases of cystic dilatation of lower thirds of left (ab.), E. Herskowits, April, 507.

PYLORUS

Cancer, Two cases of gastric: difficulty of radio-dimensions.

Cancer, Two cases of gastric: difficulty of radio-diagnosis of lesions of pyloric antrum (ab.), P. Vasselle, March, 369. Invagination of pylorus into duodenum, Unusual case of (ab.), L. Galifi, Feb., 255.

RADIATION

Cerenkov radiation (ab.), G. B. Collins and V. G. Reiling, May, 637.

May, 637.

Efficiency curves in quantitative radiobiology, W. H. Love, June, 708.

Fibromas, Involution of uterine cavity after irradiation of (ab.), Guilbert, Tortat, Frain, and Le Guern, May, 649.

Fractures, Some experimental studies of action of short waves on process of healing of (ab.), E. Fischel, Feb., 258.

Gynecology, Radiation therapy in (ab.), S. Mitra, March, 384

Gynecology, Radiation therapy in (ab.), S. Mitra, March, 384.

Heterogeneous beam of roentgen rays, Spectral distribution of (ab.), G. Grossmann, Jan., 122.

High voltage x-rays in mitrogen, Scattering and photo-electric absorption of (ab.), H. C. Trueblood and D. H. Loughridge, May, 637.

Inflammatory conditions, Radiation therapy in acute and chronic (ab.), H. J. Ullmann, May, 631.

Intra-oral carcinoma, Cervical lymph nodes in: surgery or irradiation? (ab.), J. J. Duffy, March, 370.

Mutual interest to general practitioner and radiologist, Points of (ab.), W. A. Jones, Jan., 122.

Potential in deep therapy, Problem of (ab.), L. Graf and J. Graf, Jan., 122.

Radiation quality factors and depth, Relation between, A. Mutscheller, Jan., 87.

Radiobiological experiments with pupe of Drosophila (ab.), A. Liechti, W. Minder, and J. H. Müller, April, 502.

Sarcomas, Results of radiation therapy in (ab.), O. Walther, May, 642. Sarcomas, R May, 642

May, 642.
Tumor variants and their influence upon radiosensitivity,
Some histological, I. A. B. Cathie, April, 425.
burns and injuries
Alov rera in treatment of radiation ulcers of mucous membranes, F. B. Mandeville, May, 598.

effects

Biologic effect of roentgen rays (ab.), J. A. Crowther, Feb., Radiosensitivity and cell division (ab.), W. Luther, Feb.,

mitogenetic
Mitogenetic radiation, Present status of, A. Hollaender,
April, 404.

therapy
Adamantinoma of tibia (ab.), B. Wolfort and D. Sloane,

Adamantinoma of tibia (ab.), B. Wolfort and D. Sloane, March, 389, Carcinoma of breast, Value of radiation in treatment of, L. G. Allen, Jan., 63.

Co-relation of physical and clinical data in radiation therapy, W. H. Meyer, Jan., 23.

Lip cancer at Radiological Clinic, Lund, Sweden, Review of 20 years' radium treatment of (ab.), A. Bergendal, Jan., 123.

123.
Tumors of hard palate, Mixed (ab.), F. T. Hill, March, 389.
Uterus, Multiple heteromorphologic malignant tumors o
H. W. Jacox, G. Major, and M. R. Baker, Jan., 51.
RADIO-ACTIVITY

Neutron production and production of artificial radio-activity,

Technic of (ab.), A. Bouwers, April, 501.

RADIOLOGICAL SOCIETY OF NORTH AMERICA, Annual Meeting, 1938, Held in Pittsburgh, Jan. 110; Next Annual Meeting, April, 492. RADIOLOGIST

DIOLOGIST

Economic status of radiologist under socialized medicine: report on Germany, S. W. Donaldson, March, 351.

Economic status of radiologist under socialized medicine: report on England, S. W. Donaldson, April, 486.

Language of engineers and radiologists: new x-ray terms proposed: rhegma, rhothion, kludon, plem, aith, R. R. Newell, March, 270.

Mutual interest to general practitioner and radiologist, Points of (ab.), W. A. Jones, Jan., 122.

Partnerships of radiologists (ed.), T. A. Groover, May, 617.

Responsibility of radiologist in training of hospital intern in fluoroscopy (ed.), R. Golden, Feb., 235.

RADIOLOGY

DIOLOGY
General welfare of radiology, M. F. Cahal, Jan., 98.
Planning and organization of radiological department in general hospital, Discussion on (ab.), R. S. Paterson, J. S. Fulton, and R. J. Sankey, May, 639–641.
Presidency, Passing on (ed.), H. R. Schinz, Jan., 105.

NIOM.

Aloc vera in treatment of radiation ulcers of mucous membranes, F. B. Mandeville, May. 598.

Bladder carcinoma, Radium therapy of: five-year results, failures, and future therapy (ab.), B. S. Barringer, May,

failures, and future therapy (ab.), B. S. Barringer, May, 641.

Cancer of cervix: therapeutic and biological thoughts (ab.), S. Laborde, April, 520.

Carcinoma, Development of treatment methods for uterine, at Women's Clinic of University of Würzburg (ab.), T. C. Neeff, May, 649.

Carcinoma of breast, Value of radiation in treatment of, L. G. Allen, Jan., 63.

Carcinoma of cervix, and breast: prognosis and preferable therapy (ab.), E. D. Greenberger, March, 370.

Carcinoma of cervix, Radium therapy of (ab.), K. Wasserburger and H. Smerker, Jan., 122.

Carcinoma of cervix, Results and experiences in treatment of, with special consideration of radium therapy (ab.), P. Caffier, May, 649.

Carcinoma of cervix, Results in treatment of, at Women's Clinic of University of Göttingen from 1926 to 1937 (ab.), F. Erichsen, April, 520.

Carcinoma of cervix, Treatment of, in Women's Clinic of University of Königsberg from 1910 to 1937 (ab.), F. v. Mikulicz-Radecki, March, 390.

Carcinoma of cervix uteri, Treatment of (ab.), R. E. Myers, March, 389.

March 369

Carcinoma of cervix uteri, Treatment of (ab.), R. E. Myers, March, 369.
Carcinoma of hypopharynx, Results of radiation therapy in (ab.), E. Bandhauer, Feb., 252.
Carcinoma of larynx and hypopharynx, Results of roentgen and radium therapy in (ab.), R. Müller, April, 503.
Carcinoma of pharynx and larynx, Treatment of, and results (ab.), L. Colledge, March, 370.
Carcinoma of skin and lip, Radium therapy in (ab.), J. Körbler, March, 383.
Carcinoma of skin and lip, Early results of near distance radiation in (ab.), A. Hrabovszky, Feb., 254.
Carcinoma of uterine cervix (ab.), H. H. Bowing and R. E. Fricke, May, 649.
Carcinoma of uterus, Avoidance of injurious effects on bladder in radiation therapy of (ab.), T. C. Neeff and F. Hoff, June, 749.
Carcinoma of uterus, Thirty years' experience in treatment of (ab.), A. Mayer, March, 390.
Carcinoma, Present method of radiation therapy of uterine, in first gynecological clinic of University of Munich (ab.), F. G. Dietel, May, 650.
Cervix carcinoma, Early results in, from single and divided doses of roentgen radiation (ab.), A. N. Arneson, March, 371.

doses of roentgen radiation (ab.), A. N. Arneson, March, 371.

Cervix uteri, Factors relating to treatment of (ab.), G. H. Johnson, March, 390.

Collum carcinoma, Results obtained in radiation treatment of inoperable (ab.), I. de Büben, March, 370.

Cystic hygroma of neck (ab.), B. L. Fleming, Jan., 129.

Danger of introducing radio-active substances into body of mammals: experience with two mares (ab.), T. Nogier, May, 642.

Dosage in radiation therapy in simple terms, Value of assessing and prescribing, R. Paterson, Feb., 221.

Dosage measurements by simple computations, H. M. Parker, May, 591.

Effects, Biological, of alpha rays, with special consideration of problems of radium therapy using extremely low doses (ab.), K. Inouye, May, 641.

Experimental production of sarcoma with radium and mesothorium (ab.), E. Uehlinger and O. Schürch, March, 383.

Fibroids, Pretended responsibility of roentgen therapy for sarcomatous degeneration of irradiated (ab.), G. Daniel, May, 650.

Fungus infections, Radiation therapy of (ab.), D. Spangler,

March, 375. Greinacher "spark" counter for measurement of very small quantities of roentgen and radium rays (ab.), A. Leichti, Feb., 248.

Gynecological radium therapy, Development of, especially in treatment of non-malignant disease (ab.), C. J. Gauss, May, 642.

Hemangiomas, Radium therapy of (ab.), W. Baensch, April,

515.

Hemorrhoids and ano-rectal angiomas in infants (ab.), A. Bensaude and F. Bertillon, Jan., 123.

Bensaude and F. Bertillon, Jan., 123.

(ab.), A. Pickhan, May, 641.

Leukopenia, Therapy of x-ray (ab.), C. Carrié, April, 515.

Lip cancer at Radiological Clinic, Lund, Sweden, Review of 20 years' radium treatment of (ab.), A. Bergendal, Jan., 123.

Mastitis and breast cancer, Chronic: family history of five sisters (ab.), S. W. Hadley, Feb., 250.

Myoma uteri, Treatment of (ab.), T. B. Lee, May, 650.

Oto-rhino-laryngological cancer by radiations, Indications and results of treatment of (ab.), L. Eloy, Feb., 253. Plantar wart (ab.), W. Kelton, April, 520. Primary and secondary beta rays in radium therapy, Significance of (ab.), W. Minder, March, 383. Radio-active emanation, Therapy with (ab.), H. Hirschi and H. Bodmer, April, 515. Radiobiology and radiation therapy (ab.), A. Gunsett, April, Radiobiology and radiation therapy (ab.), A. Gunsett, April, April

Radiobiology and radiation therapy (ab.), A. Gunsett, April, 514.

Radium bomb, Is it possible to use, for intravaginal treatment of carcinoma of uterus and would it be possible to improve considerable distribution of radiation? (ab.), R. du Mesnil de Rochemont, April, 515.

Radium, poisoning and tolerance dose of radium, Researches in problem of, B. Rajewsky, Jan., 57.

Radium therapy, Construction of superficial applicators for (ab.), R. Paterson and W. MacVicar, April, 515.

Roentgen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (150).

Roentgen therapy, Dosage and method of, for inflammatory conditions, A. U. Desjardins, June, 699.

Skin malignancy, Treatment of, by irradiation (ab.), H. W. Jacox, March, 369.

Soluble radium, injected into animal, distributed in various body tissue, How is? (ab.), F. Daels, March, 383.

Superficial radiotherapy: contact radiotherapy (Chaoul) (ab.), W. Gassmann, May, 639.

Tumors of larynx (ab.), F. A. Figi, May, 632.

Uterine fibroids, Use of radium in treatment of (ab.), L. Feid, Jr., Jan., 122.

Uterine hemorrhage, Radiotherapy in non-malignant (ab.), B. Windeyer, May, 631.

X-ray treatment of operable cancer of breast, Technic of based upon analysis of Keynes' radium technic, J. R. Andrews, March, 294.

RECTUM

Hemorrhoids and ano-rectal angiomas in infants (ab), A. Bensaude and F. Bertillon, Jan., 123.

RECTUM

Hemorrhoids and ano-rectal angiomas in infants (ab).,
A. Bensaude and F. Bertiilon, Jan., 123.

Melanosis coli (ab), L. A. Buie, May, 642.

Rectal symptoms from general surgeon's standpoint (ab.),
H. B. Stone, May, 642.

RESPIRATION

Tests of respiratory efficiency and their correlation with radiological appearances in lungs (ab.), E. M. Killick,

April, 511.

RETICULO-ENDOTHELIAL SYSTEM

Irradiation of reticulo-endothelial tissue with small doses of roentgen rays, Studies on (ab.), S. A. Chrom, April,

TROPERITONEAL CYST. See Abdomen.

RETROPERITOREME
RIBS, fractures
Spontaneous rib fracture among tuberculous, Radiologica study of (ab.), C. Sabbione, Jan., 127.
ROENTGEN RAYS, biologic effects
Biologic effect of roentgen rays (ab.), H. Holthusen, April, 514.

Acute roentgen injury, Report of (ab.), K. Hoede, April, 514.

514.
Aloe vera in treatment of radiation ulcers of mucous membranes, F. B. Mandeville, May, 598.
Leukopenia, Therapy of x-ray (ab.), C. Carrié, April, 515.
Radiodermatitis and active ulceration, Several cases of, treated and cured by halibut liver ointment (ab.), Belot, Nahan, and Marquis, April, 514.
Roentgen late injuries (ab.), F. John, April, 515.
Tracheal stenosis from roentgen therapy (ab.), L. H. Clerf and F. J. Putney, April, 514.

ray rentals in hospitals: analysis of current rental costs in hospitals and medical buildings, L. H. Garland, Jan., effects

Cyclic character of effect of roentgen rays (ab.), L. Neu and V. Neu, April, 514.

examination

ramination
 Abdomen, Diagnosis of unusual calcareous shadows found on x-ray films of, C. B. Rose, May, 600.
 Abdominal roentgenography, Use of prostigmin as preparation for (ab.), M. J. Farrell, Jan., 123.
 Abscesses, Diagnosis of extrapleural (ab.), G. Skarby, May, 633.

633.
Accessory nasal sinuses by roentgen study, Diagnosis of diseases of (ab.), L. Stehr, March, 385.
Acetylene gas, Roentgenological changes in lungs caused by (ab.), A. Renander, Jan., 119.
Acute osteoporosis, Roentgen therapy in (ab.), E. B. Mumford, March, 367.
Adamantinoma of tibia (ab.), B. Wolfort and D. Sloane, March, 329.

March, 389.
Adipose tissue, Roentgen diagnostic importance of, J. Silbermann, Jan., 77.
Amebic infections of large bowel, Further consideration of

Amebic infections of large bowel, Further consideration of roentgen-ray manifestations in, J. C. Bell, March, 332.
Aneurysms and mediastinal tumors, Roentgen kymographic studies of (ab.), W. G. Scott and S. Moore, March, 377.
Aneurysm, Clinical aspect of (ab.), J. H. Mills and B. T. Horton, June, 746.
Aneurysm of aorta, Dissecting: clinical recognition (ab.), A. J. Patek, April, 509.
Aneurysm of heart wall, Instructive case of, with "teetermovement" symptom (ab.), L. Bischoff, June, 746.

ROENTGEN RAYS, examination-Continued

Aneurysms of internal carotid artery in cavernous sinus, Saccular (ab.), G. Jefferson, April, 508.
Aneurysm, Paraplegia from erosion of vertebral column by large thoracic, M. J. Hubeny and P. J. Delano, Feb., 171.
Angiomas, Calcification in (ab.), F. Y. Khoo, Jan., 128.
Anomalies of spine (ab.), W. Bailey and R. A. Carter (ab.), Ian., 128.

Jan., 125.

Anterior basal meningiomas (ab.), W. R. Henderson, Jan.,

128 Antrum, Inorganic lacunar images of (ab.), P. Porcher March, 386.

March, 386.

Apparatus, mobile x-ray, Roentgen treatment of acute peritonitis and other infections with, J. F. Kelly and D. A. Dowell, June, 675.

Appendicitis and x-ray study, Chronic (ab.), H. Lossen, April, 501.

Arthritis of shoulder, Chronic (ab.), J. G. Kuhns, Feb.,

248.
Asbestosis (ab.), J. V. Sparkes, June, 747.
Atelectases of lungs and their sequences, Acute and chronic (ab.), R. Pohl, March, 379.
Barium enemas to disclose latent intestinal tuberculosis in cases with pulmonary tuberculosis, Necessity for systematic use of (ab.), M. Picard, Jan., 128.
Benign giant-cell tumor of bone, Roentgen diagnosis and treatment of (ab.), J. A. Meadows and K. F. Kesmodel, March, 367.

treatment of (ab.), J. A. Meadows and K. F. Kesmodel, March, 367.
Biotome of Bocage and of planigraph of Ziedses des Plantes, Presentation of (ab.), J. Massiot, June, 747.
Bladder, Dermoid cyst of (ab.), A. Lidzki, June, 749.
Bladder tumors, Radiological diagnosis of (ab.), W. Sitkowski, June, 749.
Bladder tumors, Radiological diagnosis of (ab.), W. Sitkowski, June, 749.
Bone explaints, Porting the March 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990,

D. M. Stewart, April, 518.

Bone tuberculosis, Unusual manifestations of, B. P. Widmann, H. W. Ostrum, and R. F. Miller, April, 434.

Breast lesions by means of contrast media, Roentgen visualization and diagnosis of (ab.), N. F. Hicken, R. R. Best, H. B. Hunt, and T. T. Harris, March, 368.

Brodie's abscess and differential diagnosis (ab.), J. F. Brailsford, Feb., 249.

Bronchial asthma, Roentgen studies of pathological physiology of (ab.), L. G. Rigler and R. Koucky, June, 748.

Bronchial stenosis, Rôle of inflammatory, in etiology of bronchiectasis (ab.), P. H. Holinger, June, 749.

Bronchial tree, Anatomy of, and clinical application, J. H. Neil, W. Gilmour, F. J. Gwynne, W. Main, and W. A. Fairclough, June, 750.

Bronchiectasis, Bilateral lobectomy for (ab.), D. E. Ross,

Fairclough, June, 750.
Bronchiectasis, Bilateral lobectomy for (ab.), D. E. Ross, June, 750.
Bronchiectasis, Further experience with roentgen therapy for, M. Berck and W. Harris, June, 693.
Bronchographic observation of re-expanded lungs following artificial pneumothorax (ab.), G. Zorzoli, May, 638.
Bronchopneumonia, Delayed resolution in (ab.), F. N. Cole, March, 382.

March. 382.

March, 382.

Bronchoscopy and esophagoscopy of importance in general practice, Phases of (ab.), V. J. Schwartz, Feb., 250.

Bronchostenosis: roentgenological study (ab.), N. Westermark, June, 750.

Calcifications in breast, Extensive (ab.), A. Kubat, March, 260.

Calcifications in breast, Extensive (ab.), A. Kubat, March, 388.

Calcification of bursa of coracoclavicular ligament (ab.), H. J. McCurrich, April, 503.

Calcification of bursa of coracoclavicular ligament (ab.), H. J. McCurrich, April, 503.

Calcified aortic stenosis, Isolated (ab.), W. F. Friedewald and A. R. Ewing, Feb., 259.

Calcified fecalith in appendix: report of case of acute suppurative appendicitis perforated by calcified fecalith (ab.), H. J. Shelley, April, 502.

Calcified scrotal tumor, A. Fine and S. Brown, Jan., 92.

Calculi, Differential diagnosis of biliary and urinary (ab.), H. Pons, June, 751.

Calculus of gall bladder with suppuration, Large (ab.), E. Binet and Dillenseger, Feb., 251.

Cancer of lung, Primary (ab.), D. S. King, April, 511.

Cancer of stomach, Early diagnosis of (ab.), L. J. Notkin, June, 752.

Cancer of stomach, Symptoms, diagnosis, and treatment of (ab.), J. S. Horsley, March, 385.

Cancer of transverse colon of masked type (ab.), A. Cade and M. Milhaud, March, 371.

Cancer, Remarks on vertebral (ab.), F.-G. Marill, R. Raynaud, and A. Huguenin, April, 517.

Carcinoma, Bronchogenic: study of eight autopsied cases, W. E. Howes and S. G. Schenck, Jan. 8.

Carcinoma from pathologic and radiologic points of view, Primary bronchogenic (ab.), W. L. Mattick and E. M. Burke, Feb., 252.

Carcinoma of thymus, with marked pulmonary osteoarthropathy, E. R. Miller, June, 651.

Cardiac end of stomach simulating soft tissue tumefaction in supine position, Shadow of, L. Nathanson, April, 473.

Cardiac enlargement, Diagnosis of (ab.), W. Frey, April, 509.

Cardiospasm: report of case, M. Golob, April, 481. Carpal scaphoid and trapezium with subluxation and fore-

shortening of first metacarpal, Traumatic axial rotation by gear movement of (ab.), A. A. Schmier and M. S. Burman, March, 390.

March, 390.

Cervical spine, Three cases of injury to, including one of unrecognized fracture of odontoid (ab.), Brillouet and A. Viel, March, 372.

Viel, March, 372.
Chest, Skiagraphy of (ab.), G. Jessel, Jan., 119.
Childhood tuberculosis, Certain significant aspects of (ab.), R. M. Tyson, Jan., 127.
Cholecystography, Danger of intravenous (ab.), W. Lutz and H. Seyfried, April, 506.
Cholecystography: single-dose versus double-dose methods of administering dye, M. Feldman, Feb., 155.
Chordoma, with report of two cases (ab.), R. F. Ridpath, March, 387.
Chronic intestinal amphicals. March, 387. Chronic intestinal amebiasis, Diagnosis of (ab.), M. Poirot.

Chromic intestinal amediasis, Diagnosis of (ab.), M. Poirot, March, 376.
Coccidioides infection (coccidioidomycosis). II.—Primary type of infection (ab.), E. C. Dickson and M. A. Gifford, April, 509.
Cold screening in low-power radiography (ab)., S. T. Li, April, 501.
Colitis, Right-sided (regional), ab., B. B. Crohan and A. A.

Colitis, Right-sided (regional), ab., B. B. Crohan and A. A. Berg, Jan., 117.
Colon, Case of genuine invagination of (ab.), B. S. Holmgren, Feb., 254.
Colon disorders, Fundamentals in surgical treatment of (ab.), L. M. Larson, Feb., 254.
Colon, Roentgen kymography of normal: defecation in man (ab.), R. A. Rendich and L. A. Harrington, March, 371.
Common duct stones, Non-operative management of remaining (ab.), R. R. Best and N. F. Hicken, Feb., 251.
Coxofemoral region, Voluminous osteogenic sarcoma of left (ab.), Carteret, Dillenseger, and P. Bertrand, May, 643.
Deformities of hip joint in children (ab.), C. G. Teall, March, 374.
Diagnostic problems in surgical kidney disease (ab.), M.

March, 374.

Diagnostic problems in surgical kidney disease (ab.), M. Muschat, April, 510.

Diaphragmatic hernia (ab.), E. M. Jones, March, 373.

Diverticula of digestive tract, Multiple (ab.), G. Ronneaux and Witasse, April, 506.

Diverticulum of duodeno-jejunal angle (ab.), G. Dumont, April, 506.

Duodenum, Diverticulum of (ab.), D. Wheeler, Feb., 255.
Dusts from lungs, Roentgenologic studies of excretion of (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, (ab.), A. E. Battery, March, 384.
Bchinococcus of spine, Case of, difficult to interpret roent-genologically (ab.), C. Guidotti, May, 645.
Embryoma of kidney (Wilms' tumor), ab., W. E. Ladd,

April, 510.

Emphysema, Spontaneous mediastinal, with report of case associated with spontaneous pneumothorax, J. B. Morey and M. C. Sosman, Jan., 19.

Encapsulated left diaphragmatic pleurisy, Roentgen image of (ab.), H. Morr, March, 379.

elnteritis, Regional (ab.), J. V. Prouty, March, 376.

Esophagopleural fistula, with report of case, J. R. Phillips, Jan., 91. April, 510.

Bsophagopleural fistula, with report of case, J. R. Phillips, Jan., 91.
Bsophagus, Peptic ulcer of (ab.), F. Norgaard, May, 636.
Bsophagus rupture of, from blow on abdomen, C. A. Aldrich and W. E. Anspach, Jan., 93.
Fibroma of stomach, True (ab.), C. B. Udaondo, E. Finochietto, and D. Mosto, May, 647.
Focal (dental) infection, Diagnosis of, especially by means of roentgenogram (ab.), W. Praeger, Feb., 255.
Fracture of atlas in automobile accidents: value of x-ray views for diagnosis (ab.), H. F. Plaut, March, 372.
Fractures, Reduction of, under roentgenoscopic control: two instructive examples (ab.), H. Tillier, March, 372.
Gall bladder, Error in technic in administration of tetraiodide with intolerance and prolonged visibility of (ab.), Nemours-Auguste, April, 505.
Gallstones, Formation transparent of gas-filled fissures in, and their significance for radiological diagnosis (ab.), Å. Akerlund, June, 751.
Gas gangrene, Radiological aspects of early and advanced (ab.), A. Grlii, April, 506.
Gastric and duodenal ulcers, Limitations of internal medical treatment of (ab.), H. Müller, March, 381.
Gastric cancer, Two cases of: difficulty of radio-diagnosis of lesions of pyloric antrum (ab.), P. Vasselle, March, 369.
Gastric cancer, X-ray diagnosis of (ab.), A. J. Delario, June, 752.
Gastric syphilis, pseudo-neoplastic type: clinical and radiologic study (ab.), H. Marc and Sire, May, 645.

752. Gastric syphilis, pseudo-neoplastic type: clinical and radio-logic study (ab.), H. Marc and Sire, May, 645. Gastric syphilis, Two cases of (ab.), P. A. Blinkenberg, May,

645.

Gastritis, Roentgenologic consideration of, M. Feldman, June, 726.

Gastrocolic fistula, W. Bailey and W. V. Knoll, March, 347.

Gastro-intestinal tract, Radiology of: value of co-operation (ab.), S. J. Borland, April, 506.

Genesis of current of venous blood and lymph, X-ray inquiry into, K. Mayer, March, 275.

Head injury, Unusual (ab.), C. K. Fuller, March, 385.

Heart at puberty, Size, variability, and correlation of (ab.), G. Marzocchi, Feb., 259.

Heart Radiological examination of (ab.), L. E. Rothstadt,

eart, Radiological examination of (ab.), L. E. Rothstadt, March, 373.

Heart's ventricles, Systolic expansion of (ab.), A. C. Morelli, April, 508.

April, 50m.

Hemangioma of vertebræ, Radiation therapy of primary (ab.), I. H. Lockwood and C. E. Bell, May, 644.

Heminephrectomy in disease of double kidney (ab.), E. Beer and W. H. Mencher, April, 509.

Hemoptysis, Value of radiology in elucidation of (ab.), F. G. Wood, March, 378.

Hernia, Esophageal hiatus, with special reference to x-ray diagnosis (ab.), D. Eisen, Feb., 257.

Hiatal hernia (ab.), H. J. Moersch, March, 374.

Hip joint presenting lesions of post-traumatic coxarthritis, Acute arthritis developing in (ab.), Lamarque and Bétoulières, March, 374.

Historadiography (ab.), P. Lamarque, April, 501.

Hyperostosis syndrome, Frontal (ab.), H. M. Salzer, April, 503.

Infants' chests, Table for use in radiography of H. Geisen-

Hyperostosis syndrome, Frontal (ab.), H. M. Salzer, April, 303.
Infants' chests, Table for use in radiography of, H. Geissberger, Jan., 96.
Intervertebral cartilage, Displacement of, as cause of back pain and sciatica (ab.), E. F. Fincher and E. B. Walker, March, 366.
Intestinal obstruction (ab.), F. Christopher, Jan., 117.
Intestinal obstruction, Acute (ab.), B. H. Nichols, Jan., 118.
Intrathoracic lesions, Density of central shadow in diagnosis of, L. G. Rigler, March, 316.
Intussusception in infancy and childhood (ab.), G. P. Grigsby and S. E. Kaplan, Jan., 117.
Invagination of pylorus into duodenum, Unusual case of (ab.), L. Galifi, Feb., 255.
Joint changes in hemophilia, N. B. Newcomer, May, 573.
Joints, Technic of air injection of (ab.), R. Meyer-Wildisen, Feb., 260.
Knee, Roentgen image of joint space at (ab.), R. Lohr and W. Hellpap, April, 511.
Laryngocele (ab.), W. L. Simpson, May, 632.
Larynx, New applications of planigraphy to physiology and pathology of (ab.), Canuyt, Gunsett, and Greiner, May, 637.
Larynx, Radiography of, anterior view, and technic (ab.),

Larynx, Radiography of, anterior view, and technic (ab.), R. Ledoux-Lebard, J. Garcia-Calderon, and A. Djian,

K. Ledoux-Lebard, J. Garcia-Calderon, and A. Djian, May, 632.

Left auricular dilatation in auricular fibrillation, Significance of (ab.), M. L. Sussman and M. T. Woodruff, March, 373.

Ligamentum flavum as factor in production of low back and sciatic pain, Hypertrophy of (ab.), W. D. Abbott, March, 366.

sciatic pain, Hypertrophy of (ab.), W. D. Abbott, March, 366.
Lipoid pneumonia in infants and children, R. S. Bromer and I. J. Wolman, Jan., I.
Lipoma of colon nine years after resection of carcinoma of colon, Large pedunculated, O. C. Julian, April, 479.
Liver abscess, Pyogenic (ab.), E. L. Eliason, R. B. Brown, and D. P. Anderson, April, 511.
Low back and sciatic pain, Intractable, due to protruded intervertebral disks; diagnosis and treatment (ab.), J. G. Love, June, 748.
Low back pain in relation to urology (ab.), S. F. Wildman, June, 748.
Lower back, Orthopedic aspects of pain in (ab.), L. W. Breck, Feb., 249.
Lower jaw of Senegalese, Puffy and cystic appearance of (ab.), Castay, Feb., 249.
Luttic ostetitis simulating malignant disease (ab.), A. H. Ungerman, W. H. Vicary, and W. W. Eldridge, April, 517.
Lumbosacral anomalies as cause of low backache (ab.), W. Clarkson and A. Barker, June, 748.
Lung abscess due to esophageal overflow (ab.), D. A. Sampson, May, 634.
Lung, Acute aerobic (non-putrid) abscess of (ab.), H. Neuhoff and A. S. W. Touroff, April, 512.
Lungs and bones, Stratigraphy of (ab.), Delaborde, June, 746.
"Lung. Azotemic": radiographic study (ab.), C. Roubier.

746.
"Lung, Azotemic": radiographic study (ab.), C. Roubier, May, 634.
Lung cysts, Congenital: air expansile types (ab.), W. W. Anderson, May, 634.
Lung embolism. Roentgen diagnosis of (ab.), N. Westermark, May, 634.

mark, May, 634. Lungs in agricultural workers, Occupational diseases of (ab.), R. Fawcitt, April, 512. Lung, Primary carcinoma of: clinical study of 160 cases in five years (ab.), A. Arkin, March, 379. Lungs, Radiographic studies of excretion of dusts from (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, May, 635.

Lung segments, Division of, in right upper lobe (ab.), E. Behr and E. Huizinga, May, 635. Lungs, Significance of calcifications within (ab.), D. A. Rhinehart, March, 380.

Kunenart, March, 380. Lung, Tuberculous ulcerations of, and pulmonary cavities (ab.), B. Faccini, May, 634. Luxations of shoulder, Undiagnosed (ab.), E. Henrard, 'April, 516.

April, 516.
Mammography by contrast media, Limitations and dangers of (ab.), S. A. Romano and E. M. McFetridge, April, 504.
Mammography, Studies in evaluation of (ab.), R. A. Reis and S. D. Mesirow, April, 504.
Mandible in Senegalese, Diffuse cystic enlargement of (ab.), Castay, April, 502.
Mastoiditis, Acute (ab.), J. C. Parsons, May, 635.
Measurements, Differences between radiological and anatomical (ab.), C. Wegelius, Jan., 123.

Meningiomas: from roentgenological viewpoint (ab.), C. W. Schwartz, March, 389.

Miniature photographs from roentgen screen, Standing and prospects of (ab.), H. Holfelder and F. Berner, June, 746.

Multiple ulcers of stomach and duodenum (ab.), P. Savy, M. Girard, and Z. Khayat, Jan., 121.

Myocardial damage, Concurrence of radiologic signs and electrocardiographic changes in (ab.), F. Barth, May, 631.

Myosarcoma of stomach: report of two cases, L. G. Allen and P. E. Hiebert, May, 567.

Nephrolithiasis, Late results in conservative management of (ab.), J. T. Priestley and W. F. Braasch, March, 377.

Normal breast, Roentgenologic examination of: evaluation in demonstrating early neoplastic changes (ab.), J. Gershon-Cohen and A. Strickler, March, 368.

Normal first metatarso-phalangeal joint due to changes in direction of central ray, Variations in x-ray appearance of (ab.), B. S. Holmgren, April, 505.

Noses, One hundred broken (ab.), J. W. Gerrie, March, 380.

Obstetrics, Practical employment of radiographic diagnosis in (ab.), P. Brault and A. Tizon, April, 508.

Optic canal, Simple procedure for radiography of (ab.), A. Bardy, Feb., 248.

Osseous-cartilaginous growth, Rare disturbances of (ab.), F. Holldack, March, 366.

Osseous dystrophy of von Recklinghausen type (ab.), M. Deluen, March, 367.

Osteogenesis imperfecta tarda, J. F. Lutz and L. C. Pusch, April, 391.

Osteogenesis imperfecta tarda, J. F. Lutz and L. C. Pusch, April, 391.
Osteoma of maxillary sinus (ab.), A. G. Rawlins, March, 384.
Osteomyelitis of spine, Acute infective (ab.), P. Turner, Jan., 124.
Osteoperiositis associated with hypertrophy of palpebral tarsi, skin of face and extremities, Radiologic aspects of almost total: new syndrome (ab.), J. N. Roy and A. Jutras, April, 502.
Osteoporosis in hyperthyroidism (ab.), E. C. Bartels and G. E. Haggart, Feb., 249.
Pancreas, Characteristic duodenal deformity in cases of different kinds of peri-vaterial enlargement of (ab.), N. Frostberg, March, 381.
Pancreas, Roentgen diagnosis of diseases of (ab.), R. Pohl, March, 381.
Papilloma of kidney pelvis, Roentgenologic demonstration of (ab.), H. Keilhack, March, 377.
Paranasal sinuses, Value of roentgen examination of, V. C. Johnson, March, 303.
Parotid duct, Radiography of, L. W. Paul, May, 609.

Johnson, March, 303.

Parotid duct, Radiography of, L. W. Paul, May, 609.

Pelvimetry and fetalometry, Roentgenographic: elimination of errors due to movements between x-ray exposures, W. W. Fray and W. T. Pommerenke, March, 261.

Pelvimetry, Roentgen-ray (ab.), C. T. Hayden, Jan., 120.

Pelvimetry, X-ray (ab.), A. Orley, Jan., 120.

Peptic ulcer of esophagus (ab.), J. Terracol, P. Lamarque, and P. Bétoulières, Jan., 121.

Perirenal insufflation (ab.), W. H. Mencher, Jan., 121.

Perirellar tumors, X.-ray aspect of (ab.), T. Blühbaum and M. Spritzer, May, 648.

Petrous tip suppuration: report of three cases. Some obser-

M. Spritzer, May, 648.

Petrous tip suppuration: report of three cases, Some observations on (ab.), D. E. S. Wishart, Feb., 256.

Placenta previa, Roentgenologic diagnosis of: indirect placentography (ab.), W. H. Ude, J. A. Urner, and F. O. Robbins, June, 749.

Planigraphic image formation, Fundamental property of, (ab.), R. H. De Waard, May, 637.

Planigraphy—application to thoracic diagnosis, W. E. Howes, May, 556.

Planigraphy with mathematical instruments, Computation of dimensions in, D. H. Drummond and W. W. Schmela, May, 550.

Pneumonias, Chronic (ab.), J. G. Scadding, May, 637.

Pneumonias, Chronic (ab.), J. G. Scadding, May, 637.

Pneumonia, Resolving lobar, in adults simulating tuberculosis in roentgenogram (ab.), S. Cohen, March, 382.

Pneumothorax, Diagnostic, S. Schnur, Feb., 198.

Pneumothorax in children, Artificial (ab.), P. F. Fitzpatrick, April, 513.

April, 513

April, 615.

Polycythemia, Course of (ab.), N. Rosenthal and F. A. Bassen, April, 502.

Pregnancy, Plea for more frequent use of lateral roentgenogram in diagnosis of, M. J. Hubeny and P. J. Delano, May, 546.

May, 546.

Prostate, Case of large opacity in (ab.), F. Bernasconi, C. Viallet, R. Marchioni, April, 513.

Pulmonary artery: roentgenographic and roentgen kymographic study, S. Brown, J. E. McCarthy, and A. Fine, Feb., 175.

Pulmonary "biotomes" taken with apparatus of Bocage, Presentation of several (ab.), Léon-Kindberg and L. Gérard, Feb., 247.

Pulmonary chondroma, So-called (ab.), N. P. G. Edling, March, 388.

March, 388.
Pulmonary cysts and emphysematous bulke, Pathological physiology of (ab.), N. L. Kaltreider and W. W. Fray. May, 633.
Pulmonary cyst with formation of separated peripheral shadows, Rapid evolution of (ab.), Brun, J. De Beaujeu, and Bêge, April, 512.
Pulmonary pneumocyst: report of enormous solitary cyst in healthy adult female (ab.), G. Cheney and L. H. Garland. March, 378.
Pulmonary radiography. Disappostic value of in primary.

Pulmonary radiography, Diagnostic value of, in primary

ROENTGEN RAYS, examination-Continued

tuberculous angina: insufficiency of radioscopy (ab.), L. Weigel, May, 633.
Pulmonary sulcus tumor simulating subacromial bursitis, Superior (ab.), L. Nathanson, L. A. Hochberg, and R. Perlman, March, 388.

Pulmonary suppuration, Non-putrid (ab.), M. L. Sussman, May, 633.

May, 633.
Pulmonary tuberculosis, Roentgenography of (ab.), H. E. Potter, April, 518.
Pulmonary tuberculosis, Spontaneous cure of some forms of (ab.), O. Maestri, April, 519.
Pylorus, Pedunculated cancer of (ab.), Poirier and Lamoureaux, April, 520.

eaux, April, 520.
Radiograms and anatomical sections of temporal bone, Comparative study of (ab.), C. G. Zachrisson, Jan., 123.
Radiographic teaching models, Two (ab.), W. E. Boyd, June, 746.

June, 746.
Radiographic visualization of "true joint fissure," Conditions responsible for (ab.), W. Magnusson, Feb., 260.
Radiography after injection of pitressin, Several cases of: experimental proofs (ab.), P. C. Smyrniotis, Jan., 122.
Radiography of heart, Cross-sectional, G. Danelius, Feb.,

Radiological disappearance of cavities immediately following

Radiological disappearance of cavities immediately following phrenico-exeresis and their re-appearance after variable lapse of time (ab.), V. Basunti, April, 518.
Renal carcinoma: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.
Renal tuberculosis, Has excretory urography replaced retrograde pyelography in diagnosis of? (ab.), J. L. Emmett and W. F. Braasch, Jan., 128.
Respiratory efficiency, Tests of, and their correlation with radiological appearances in lungs (ab.), E. M. Killick, April, 511.
Retrograde catheterization in diagnosis and treatment of

April, 511.

Retrograde catheterization in diagnosis and treatment of seminal vesiculitis (ab.), A. P. Peterson, Jan., 124.

Retroperitoneal cyst with agenesia of kidney, K. Kornblum and J. A. Ritter, April, 416.

Right quadrant, Problems presented by lesions of (ab.), O. C. Pickhardt and H. A. Rafsky, March, 376.

Sacro-iliac tuberculosis (ab.), F. Thompson, March, 387.

Sarcoma in peri-myocardium, Primary (ab.), P. Cossio and I. Berconsky, May, 631.

Schmorl's cartilage islands (ab.), K. Overgaard, Jan., 125.

Schuller-Christian's disease (ab.), M. Esser, May, 643.

Schüller-Christian's disease (ab.), M. Schieber, May, 643.

Schüller-Christian's disease (ab.), M. Schieber, May, 643.
Sella turcica, Value of x-ray examination of, in sagittal positions, P. L. Fariñas, April, 411.
Septic patient with totitis media, Management of (ab.), J. H. Maxwell, Jan., 120.
Shoulder joint in profile, New position for radiologic examination of (ab.), J. Massa, April, 516.
Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131.
Silicosis and carcinoma of lung, Association of (ab.), M. O. Klotz, May, 634.
Silicosis, Factors which determine diagnosis of (ab.), C. L. Sutherland, May, 643.
Silicosis in pottery workers (ab.), R. A. K. Harper, April, 516.

516.
Sinus infections, Roentgen therapy of carefully selected, F. M. Hodges and L. O. Snead, June, 669.
Sinus tracts, Simple apparatus for visualization of, L. Long, June, 733.
Spondylitis, Roentgen diagnosis of tuberculous (ab.), N. Westermark and G. Forssman, May, 644.
Spontaneous rib fracture among tuberculous, Radiological study of (ab.), C. Sabbione, Jan., 127.
Stomach, Double ulcer of: radiographs and specimen (ab.), V. Paschetta, May, 636.
Stomach, Hematemesis and diaphragmatic hernia of (ab.), P. Carnot and A. Lafitte, March, 386.
Stomach, Volvulus of (ab.), P. Chêne and M. Ramadout, Jan., 125.
Stratigraphy, Practical pulmonary (ab.), C. Gaillard, June,

Stratigraphy. Practical pulmonary (ab.), C. Gaillard, June,

747.
747.
Syphilis of bones and joints (ab.), F. A. Jostes and M. B. Roche, May, 645.
Teratomas and dermoid cysts (ab.), W. Kuzma, May, 646.
Thalassanemia (ab.), E. S. Mills, May, 646.
Thymus shadow, in 2,000 new-born, Study of relations between birth weight and size of (ab.), S. W. Donaldson,

tween birth weight and size of (ab.), S. W. Donaldson, Jan., 126.
Tibia vara. Adolescent, J. A. Siegling and J. B. Gillespie, April, 483.
Tube rail for general diagnostic x-ray laboratory, Ceilingmounted, C. J. Zintheo, April, 477.
Tuberculosis, Diagnosis and management of latent, suspected, and early clinical (ab.), H. W. Hetherington, April, 518.
Tuberculos bronchogenic disseminations, Necessity for repeated roentgen investigation in late manifestations of (ab.), H. Bartsch and S. Zollner, March, 379.
Tuberculous pneumonia (ab.), J. W. Strayer, March, 382.
Tumors, Bony intracranial (ab.), C. Pilcher, May, 647.
Tumor, Giant-cell ("osteoclastoma"), of femur treated with x-rays (ab.), S. Dechambre, E. Dechambre, and J. Nebout, May, 648.
Tumors of duodenum and jejunum, Primary, and lympho-

Tumors of duodenum and jejunum, Primary, and lymphogranuloma of duodenum (ab.), M. Cace, April, 519.

Tumors of upper pole of stomach (ab.), B. Stenström, Jan.,

Tumors of upper pole of stomach (ab.), B. Stenström, Jan., 129.

"Ulcer, large duodenal," Radiologic characteristics of so-called (ab.), D. S. Bartstra, May, 636.

Ureteric calculus, Radiological aspect of treatment of (ab.), D. G. Maitland, March, 368.

Ureters, Two cases of cystic dilatation of lower thirds of left (ab.), E. Herskowits, April, 507.

Urinary calculus, Brief review of 426 consecutive cases of (ab.), H. P. Winsbury-White, Feb., 251.

Venography in case of so-called traumatic thrombosis of axillary vein (ab.), O. Andersson, Jan., 130.

Vertebral articular apophyses, Anomalies of (ab.), F. Willemin and M. Cantagrill, April, 517.

Vertebral column, Changes in, following tetanus (ab.), E. Feistmann-Lutterbeck, May, 645.

Vertebral disease, Case of, difficult to diagnose, in retrospect (ab.), C. Roederer and Choffat, May, 644.

Volvulus of sigmoid megacolon, Roentgenological diagnosis of, with report of two cases, M. R. Hall (ab.), Jan., 117.

X-ray in general practice, Value of (ab.), C. G. Sutherland, May, 646.

measurement

Greinacher "spark" counter for measurement of very small quantities of roentgen and radium rays (ab.), A. Leichti, Feb., 248.

Feb., 248.

therapy
Acute and chronic inflammatory conditions, Treatment of, by fractional doses of x-ray, H. A. Osgood, March, 311.

Acute osteoporosis, Roentgen therapy in (ab.), E. B. Mumford, March, 367.

Apparatus for roentgen deep therapy, Modern high milliamperage and high voltage (ab.), W. Fehr, June, 746.

Back-scatter, Study of (ab.), E. H. Quimby, L. D. Marinelli, and J. H. Farrow, March, 371.

Benign giant-cell tumor of bone, Roentgen diagnosis and treatment of (ab.), J. A. Meadows and K. F. Kesmodel, March, 367.

March, 367

March, 367.

Breast, Treatment of carcinoma of: technic, complications, and results, E. Newcomer, Feb., 161.

Bronchiectasis, Further experience with roentgen therapy for, M. Berck and W. Harris, June, 693.

Calcified scrotal tumor, A. Fine and S. Brown, Jan., 92.

Cancer campaign: suggestions for better treatment of malignant growths (ab.), A. M. Begg, Feb., 253.

Cancer of cervix: therapeutic and biological thoughts (ab.), S. Laborde, April, 520.

Cancer of lung, Primary (ab.), D. S. King, April, 511.

Carcinoma, Development of treatment methods for uterine, at Women's Clinic of University of Würzburg (ab.), T. C. Neeff, May, 649.

at Women's Clinic of University of Würzburg (ab.), T. C. Neeff, May, 649.
Carcinoma of breast treated by teleroentgentherapy, Vertebral metastasis from (ab.), A. Poulain, Feb., 250.
Carcinoma of cervix and breast: prognosis and preferable therapy (ab.), E. D. Greenberger, March, 370.
Carcinoma of cervix, Radium therapy of (ab.), K. Wasserburger and H. Smereker, Jan., 122.
Carcinoma of cervix, Results in treatment of, at Women's Clinic of University of Göttingen from 1926 to 1937 (ab.), F. Frichsen, April, 520.
Carcinoma of cervix, Treatment of, in Women's Clinic of University of Königsberg from 1910 to 1937 (ab.), F. v. Mikulicz-Radecki, March, 390.
Carcinoma of cervix uteri, Treatment of (ab.), R. E. Myers, March, 369.

Mikulicz-Radecki, March, 390.
Carcinoma of cervix uteri, Treatment of (ab.), R. E. Myers, March, 369.
Carcinoma of esophagus, Studies regarding technic and methods in radiation therapy of (ab.), A. Adam, Feb., 257.
Carcinoma of hypopharynx, Results of radiation therapy in (ab.), E. Bandhauer, Feb., 252.
Carcinoma of larynx and hypopharynx, Results of roentgen and radium therapy in (ab.), R. Müller, April, 503.
Carcinoma of prostate, Metastases from occult (ab.), O. S. Culp, April, 513.
Carcinoma of skin and lip, Early results of near distance radiation in (ab.), A. Hrabovszky, Feb., 254.
Carcinoma of thymus, with marked pulmonary osteo-arthropathy, E. R. Miller, June, 651.
Carcinoma of uterine cervix (ab.), H. H. Bowing and R. E. Fricke, May, 649.
Carcinoma of uterus, Avoidance of injurious effects on bladder in radiation therapy of (ab.), T. C. Neeff and F. Hoff, June, 749.
Carcinoma of uterus, Thirty years' experience in treatment

June, 749.
Carcinoma of uterus, Thirty years' experience in treatment of (ab.), A. Mayer, March, 390.
Carcinoma, Present method of radiation therapy of uterine. in first gynecological clinic of University of Munich (ab.), F. G. Dietel, May, 650.
Carcinoma, Radium therapy of bladder: five-year results, failures, and future therapy (ab.), B. S. Barringer, May, 641.

Carotid sinus syndrome, Use of roentgen therapy in, C. A. Stevenson, Feb., 209. Cervix carcinoma, Early results in, from single and divided doses of roentgen radiation (ab.), A. N. Arneson, March., 371.

Gris uteri, Factors relating to treatment of (ab.), G. H. Johnson, March, 390.
 Chaoul, Roentgen therapy by method of, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142.
 Chauffard-Still's disease, Treatment of (ab.), F. LePennetier, March 385.

tier, March, 385.

Chorionepithelioma testis, with record of case, Observations on (ab.), S. McDonald, Jr., March, 388.
Collum carcinoma, Results obtained in radiation treatment of inoperable (ab.), I. de Büben, March, 370.
Curved surfaces, Technic of roentgen therapy of (ab.), A. Proppe, March, 384.
Cystadenoma in double kidney, Malignant papillary (ab.), N. F. Ockerblad and H. E. Carlson, April, 510.
Dermatology, Skin therapy in (ab.), C. Guarini, May, 644.
Dosage in radiation therapy in simple terms, Value of assessing and prescribing, R. Paterson, Feb., 221.
Dosage measurements by simple computations, H. M. Parker, May, 691.
Dosage units and ionization method (ab.), R. M. Sievert,

Parker, May, 591.
Dosage units and ionization method (ab.), R. M. Sievert,
March, 372.
Effect of change of environments of animal cells on their
radiosensitivity, Experimental study on (ab.), V. Kagami,

April, 501. Embryoma of kidney (Wilms' tumor), ab., W. E. Ladd, April, 510.

April, 510.

Epilepsy, Experience with roentgen therapy in (ab.), M. Sgalitzer, April, 505.

Epilepsy, Roentgen therapy of (ab.), W. von Weiser, April,

Erysipeloid, X-ray treatment of (ab.), M. A. Walker and L. G. Allen, May, 644.

Ewing's tumor, Radiosensitivity of (ab.), G.-C. Leclerc,

May, 048. Experimental production of sarcoma with radium and meso-thorium (ab.), E. Uehlinger and O. Schürch, March, 383. Fibroids, Pretended responsibility of roentgen therapy for sarcomatous degeneration of irradiated (ab.), G. Daniel,

Fibroids, Fretended responsibility of rentigen therapy for sarcomatous degeneration of irradiated (ab.), G. Daniel, May, 650. Fungus infections, Radiation therapy of (ab.), D. Spangler, March, 375. Gas gangrene infections, Treatment of (ab.), J. J. Faust, April, 506. Granulomas, Treatment of malignant, by radiotherapy (ab.), R. Gilbert, May, 648. Granulomatosis, Radiculo-medullary compression in course of malignant (ab.), J. Froment, P. Croizat, and R. Masson, Jan., 125. Gynecological radium therapy, Development of, especially

son, Jan., 125.

Gynecological radium therapy, Development of, especially in treatment of non-malignant disease (ab.), C. J. Gauss, May, 642.

Hemangioma which was clinically cured by radiotherapy, Compression of vertebra by (ab.), G. de Luca, May, 644.

Hemorrhagic disorders, Roentgen treatment of certain (ab.), L. H. Garland, March, 385.

Hemorrhagic metritis cured by roentgen irradiation of hypophysis, Case of (ab.), J. Moro and Monmignaut, April 507.

301.

Hyperthyroidism, Treatment of, with consideration of other of ductless glands as trigger mechanism: based upon observation of 360 cases, I. W. Jenkins, March, 340.

Infections, Radiation therapy of (ab.), H. G. Reineke,

Infections, R. March, 376.

March, 376.

Inflammatory conditions, Dosage and method of roentgen therapy for, A. U. Desjardins, June, 699.

Inflammatory conditions, Fundamental principles of roentgen therapy of (ab.), W. von Weiser, Feb., 259.

Inflammatory diseases, Roentgen treatment of (ab.), G. Clement, May, 632.

Injury of blood in consequence of teleroentgen therapy of whole body, Serious (ab.), D. den Hoed, B. Levie, and M. Straub, March, 386.

Leukemia, Roentgen treatment of, with report of pregnancy in case of lymphatic leukemia, E. K. Harrison and R. J. Reeves, March, 284.

Lobar pneumonia, Roentgen therapy of (ab.), E. V. Powell, March, 382.

Low voltage radiation, Some experimental and

Maren, 30%. Low voltage radiation, Some experiences, experimental and clinical, with direct irradiation of neurological tumors during operation with, J. R. Carty and B. S. Ray, March, 395.

Lower back, Orthopedic aspect of pain in (ab.), L. W. Breck,

325.

Lower back, Orthopedic aspect of pain in (ab.), L. W. Breck, Feb. 249.

Lymphoblastoma, Irradiation of cutaneous manifestations of (ab.), R. G. Pett, April, 520.

Lymphocytoma, Progress of case of (ab.), Brillouet and A. Viel, March, 389.

Melanoma, Case of (ab.), M. Arnaud, April, 520.

Malignant cells, Further study on direct and indirect actions of radiation on: 1.—Transplantation of tissue cultures of Mouse Sarcoma 180 after exposure to roentgen rays: 11.—Cultures of tumors irradiated in vivo, K. Sugiura and I. Cohen, Jan., 71.

Malignant lesions, Occurrence of two or more primary, J. J. Collins, April, 462.

Malignant tumors, Surgical standpoint regarding radiation therapy of (ab.), F. Sauerbruch, in collaboration with K. Middeldorpf, March, 389.

Mastitis and breast cancer, Chronic: family history of five sisters (ab.), S. W. Hadley, Feb., 250.

Measurement of tissue dosage in radiation therapy, E. H. Quimby, May., 583.

Meningiomas: from roentgenological viewpoint (ab.), C. W. Schwartz, March, 389.

Menstrual dysfunctions and sterility, Roentgen treatment of: sanalysis of 108 cases, S. Bruck and J. M. Fruchter, April, 446.

Metrorrhagia cured by radiotherapy: subsequent pregnancy (ab.), Dano and Lainé, April, 507.
Myoma uteri, Treatment of (ab.), T. B. Lee, May, 650.
Operable cancer of breast, Technic of x-ray treatment of, based upon analysis of Keynes' radium technic, J. R.
Andrews, March, 294.
Osecous, dystrophy, of your Recklinghausen type (ab.), M.

Andrews, March, 294.
Oseous dystrophy of von Recklinghausen type (ab.), M. Deluen, March, 367.
Oto-rhino-laryngological cancer by radiations, Indications and results of treatment of (ab.), L. Eloy, Feb., 253.
Otitis media, acute, Evaluation of roentgen irradiation as adjunct in treatment of: preliminary report, A. H. Dowdy, C. A. Heatly, and W. W. Pierce, June, 661.
Ovarian irradiation, Recovery following human, H. W. Ja-paget's disease of bone, Roentgen therapy in (ab.), R. Ledoux-Lebard, March, 367.

GOUX-Lebard, March, 307.

H. H. Howard and H. I. Suby, March, 377.

Peritonitis, acute, and other infections, Roentgen treatment of, with mobile x-ray apparatus, J. F. Kelly and D. A. Dowell, June, 675.

Physical measurements on roentgen radiation from tube actuated by Van de Graaf generator, J. C. Hudson, May,

530.

Plantar wart (ab.), W. Kelton, April, 520.

Plantar warts, Treatment of: clinical memorandum (ab.),
H. Haldin-Davis, April, 520.

Potential in deep therapy, Problem of (ab.), L. Graf and J.

Graf, Jan., 122.

Grat, Jan., 122.
Frimary neoplasms of lung, Radiation therapy in (ab.), R. E. Myers, March, 379.
Pulmonary tuberculosis, Direct roentgen therapy through small fields of (ab.), G. Faldella, April, 518.
Radiation therapy and glands of internal secretion (ed.), March, 360.

Radiobiology and radiation therapy (ab.), A. Gunsett, April, 514.

April, 514.

Radiosensitivity and recurrent growth in Obelia, P. S. Henshaw, April, 466.

Radiotherapy, Scope of (ab.), H. H. Navid, March, 384.

Recovery from roentgen rays, Influence of low temperature on, E. V. Cook, March, 289.

Renal carcinoma: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.

Renal tumors: review of 130 cases (ab.), H. A. Soloway, March, 388.

March, 388.
Results of irradiation with soft roentgen rays at very small focus-skin distance (contact therapy), ab., D. den Hoed,

May, 644.

Reticulo-emdothelial tissue with small doses of roentgen rays,
Studies on irradiation of (ab.), S. A. Chrom, April, 501.

Roentgen caustic (ab.), G. J. van der Plaats, March, 371.

Roentgen epilation, E. Aronstein, Jan., 95.

Roentgen therapy (ab.), L. S. McAlister, Feb., 253.

"Rotation" irradiation, Determination of dose in (ab.), R.

du Mesnil de Rochemont, March, 372.

Sarcoma of prostate and adjacent retrovesical structures
(ab.), E. Hess, April, 513.

Sarcoma, Results of treatment of osteogenic (ab.), H. W.

(ab.), E. Hess, April, 513.
Sarcoma, Results of treatment of osteogenic (ab.), H. W. Meyerding, March, 388.
Schüller-Christian's disease (ab.), M. Schieber, May, 643.
Sinus infections, Roentgen therapy of carefully selected, F. M. Hodges and L. O. Snead, June, 669.
Sinustitis, Roentgen therapy of (ab.), L. Popp, March, 385.
Skin malignancy, Treatment of, by irradiation (ab.), H. W. Lacoy, March, 369.

Sinusitis, Roentgen therapy of (ab.), L. Popp, March, 385.
Skin malignaney, Treatment of, by irradiation (ab.), H. W. Jacox, March, 369.
Superficial radiotherapy: contact radiotherapy (Chaoul) (ab.), W. Gassmann, May, 639.
Supervoltage (ed.), A. Soiland, June, 742.
Thimble ionization chamber, Note on use of clinical dosage meters using, M. C. Reinhard, March, 282.
Thymus shadow in 2,000 new-born, Study of relations between birth weight and size of (ab.), S. W. Donaldson, Jan., 126. 126.

Tracheal stenosis from roentgen therapy of chronic (ab.), P. Heb. March, 386. Tracheal stenosis from roentgen therapy (ab.), L. H. Clerf

Tracheal stenosis from roentgen therapy (ab.), L. H. Clerf and F. J. Putney, April. 514.

Tumor, Giant-cell ("osteoclastoma"), of femur treated with x-rays (ab.), S. Dechambre, E. Dechambre, and J. Nebout, May, 645.

Tumor of bone, Giant-cell (ab.), B. L. Coley and N. L. Higinbotham, March. 367.

Tumors of larynx (ab.), F. A. Figi, May, 632.

Tumors, Renal (ab.), J. C. McClelland and J. R. F. Mills, March, 389.

Uterine cavity, Involution of, after irradiation of fibromas (ab.), Guilbert, Tortat, Frain, and Le Guern, May, 649.

Uterine hemorrhage, Radiotherapy in non-malignant (ab.), B. Windever, May, 631.

B. Windever, May, 631.

Language of engineers and radiologists: new x-ray terms proposed: rhegma, rhothion, kludon, plem, aith, R. R. Newell, March, 270.

Discharge x-ray tube, Experiments with condenser (ab.), K. H. Kingdon and H. E. Tanis, Jr., Feb., 247, Near-distance x-ray tubes and body cavity tubes of various

ROENTGEN RAYS, tubes-Continued

constructions, Distribution of dose in (ab.), T. Zimmer, June, 747.
Radiation output of shock-proof x-ray tubes, Effect of cable length on, T. H. Rogers, Feb., 202.
Shock-proof and ray-proof containers for roentgen therapy tubes, Five years' experience of modern (ab.), R. Thoraeus, Feb., 247.
Siemens body cavity x-ray tube with pointed anode, New (ab.), Zimmer, Feb., 247.
Tube actuated by Van de Graaf generator, Physical measurements on roentgen radiation from, J. C. Hudson, May, 530.

SACRO-ILIAC JOINT

Anomalies, Lumbosacral, as cause of low backache (ab.), W. Clarkson and A. Barker, June, 748. Tuberculosis, Sacro-iliac (ab.), F. Thompson, March, 387. SALIVARY GLANDS
Sialography in non-neoplastic diseases of parotid gland, Application of, J. V. Blady and A. F. Hocker, Feb., 131. SARCOMA

ROMA

Experimental production of sarcoma with radium and mesothorium (ab.), E. Uehlinger and O. Schürch, March, 383.

Malignant cells, Further study on direct and indirect actions of radiation on: 1.—Transplantation of tissue cultures of Mouse Sarcoma 180 after exposure to roentgen rays: II.—Cultures of tumors irradiated in vivo, K. Sugiura and I. Cohen, Jan., 71.

Osteogenic sarcoma, Results of treatment of (ab.), H. W. Meyerding, March, 388.

Meyerding, March, 388.
Primary sarcoma in peri-myocardium (ab.), P. Cossio and I. Berconsky, May, 631.
Prostate, Sarcoma of, and adjacent retrovesical structures (ab.), E. Hess, April, 513.
Radiation therapy in sarcomas, Results of (ab.), O. Walther, May, 642.
Soluble radium, injected into animal, distributed in various body tissue, How is? (ab.), F. Daels, March, 383.
Voluminous osteogenic sarcoma of left coxofemoral region (ab.), Carteret, Dillenseger, and P. Bertrand, May, 643.
brossarcoma

Perirenal fibrosarcoma (ab.), H. H. Howard and H. I. Suby, March, 377.

melanosarcoma Melanosarcoma, Three-year cure of case of (ab.), Drevon and Mourgues, March, 389.

myosarcoma Myosarcoma of stomach; report of two cases, L. G. Allen and P. E. Hiebert, May, 567.

SCAPULA

Calcification of bursa of coracoclavicular ligament (ab.), H.

J. McCurrich, April, 503. racture of neck of scapula (ab.), M. R. Charlton, Feb., 258.

SCHÜLLER-CHRISTIAN SYNDROME
Schüller-Christian's disease (ab.), M. Esser, May, 643.
Schüller-Christian's disease (ab.), M. Schieber, May, 643. SCROTUM

Calcified scrotal tumor, A. Fine and S. Brown, Jan., 92. SEMILUNAR CARTILAGE

Calcification of meniscus and hypertrophic spurring (ab.), Roederer, Gaucher, and Jésover, April, 517.

SEMINAL VESICLES Retrograde catheterization in diagnosis and treatment of seminal vesiculitis (ab.), A. P. Peterson, Jan., 124.

SHOULDER JULIER
Arthritis of shoulder, Chronic (ab.), J. G. Kuhns, Feb., 248.
Luxations of shoulder, Undiagnosed (ab.), E. Henrard,
April, 516.
Radiologic examination of shoulder joint in profile, New
position for (ab.), J. Massa, April, 516.

SILICOSIS

ICÓSIS
Carcinoma of lung, Association of silicosis and (ab.), M. O. Klotz, May, 634.
Diagnosis of silicosis, Factors which determine (ab.), C. L. Sutherland, May, 643.
Dusts from lungs, Roentgenologic studies of excretion of (ab.), A. E. Barclay, K. J. Franklin, and R. G. Macbeth, March, 384.
Silicosis, Study of (ab.), P. B. Matz, March, 384.
Silicosis in grinders (ab.), J. L. A. Grout, April, 516.
Silicosis in pottery industry (ab.), J. F. Bromley, April, 516.
Silicosis in pottery workers (ab.), R. A. K. Harper, April, 516, IISES

Visualization of sinus tracts, Simple apparatus for, L. Long, June, 733.

Aneurysms of internal carotid artery in cavernous sinus, Saccular (ab.), G. Jefferson, April, 508.

asal
Diseases of accessory nasal sinuses by roentgen study, Diagnosis (ab.), L. Stehr, March, 385.
Paranasal sinuses, Value of roentgen examination of, V. C.
Johnson, March, 303.
Pneumatization of facial bones in Crouzon's disease, Apert's
disease, and oxycephaly (ab.), P. de Gunten, March, 384.
Roentgen therapy of carefully selected sinus infections, F. M.
Hodges and L. O. Snead, June, 669.
Sinusitis, Roentgen therapy of (ab.), L. Popp, March, 385.

Carcinoma of skin and lip, Early results of near distance radiation in (ab.), A. Hrabovszky, Feb., 254.
Carcinoma of skin and lip, Radium therapy of (ab.), J. Körbler, March, 383.
Irradiation of cutaneous manifestations of lymphoblastoma (ab.), R. G. Pett, April, 520.
Radiodermatitis and active ulceration, Several cases of, treated and cured by halibut liver ointment (ab.), Belot, Nahan, and Marquis, April, 514.
Roentgen injury, Report of acute (ab.), K. Hoede, April, 514.

Sin. Roentgen late injuries (ab.), F. John, April, 515. Skin malignancy by irradiation, Treatment of (ab.), H. W. Jacox, March, 369.

dispases

seases Erysipeloid, X-ray treatment of (ab.), M. A. Walker and L. G. Allen, May, 644. Irradiation, Results of, with soft roentgen rays at very small focus-skin distance (contact therapy), ab., D. den Hoed, May, 644.

Roentgen therapy in dermatology (ab.), C. Guarini, May, 644.

SKULL

KULL
Head injury, Unusual (ab.), C. K. Fuller, March, 385,
Sella turcica, Value of x-ray examination of, in sagittal positions, P. L. Fariñas, April, 411,
tuberculosis in

berculosis in Bone tuberculosis, Unusual manifestations of, B. P. Widmann, H. W. Ostrum, and R. F. Miller, April, 434 (436). SOCIALIZED MEDICINE

MALIZED MEDICINE Socialized medicine, Economic status of radiologist under: report on Germany, S. W. Donaldson, March, 351.
Socialized medicine, Economic status of radiologist under: report on England, S. W. Donaldson, April, 486.

SOCIETIES

American Association of Industrial Physicians and Surgeons. April. 493.

April, 493.
American Board of Radiology, Jan., 113.
American Board of Radiology, Jan., 113.
American Congress on Obstetrics and Gynecology, Feb., 238.
American Medical Association, June, 736, 738.
American Society of X-ray Technicians, June, 743.
Associated Radiologists of New York, Inc., Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.
Baltimore City Medical Society, Radiological Sect., Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.

102; Feb., 232; March, 357; April, 488; May, 614; June, 739.

Brooklyn Roentgen Ray Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.

Buffalo Radiological Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.

California Medical Association, Sect. on Radiology, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.

Canadian Association of Radiologists, Jan., 114.

102: Feb., 232; March, 357; April, 488; May, 614; June, 739.
Canadian Association of Radiologists, Jan., 114.
Central New York Roentgen-ray Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.
Chicago Roentgen Society, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.
Cleveland Radiological Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.
Connecticut State Medical Society, Sect. on Radiology, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.
Denver Radiological Club, Jan., 102; Feb., 229, 232; March, 357; April, 488; May, 614; June, 739.
Detroit X-ray and Radium Society, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.
Florida Medical Society, Feb., 330.
Florida Radiological Society, Jan., 102, 113; Feb., 232; March, 357; April, 488; May, 614; June, 737, 739.
Georgia Radiological Society, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 737, 739.
Illinois Radiological Society, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 737, 739.
Illinois State Medical Society, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.
Indiana Roentgen Society, Jan., 102; Feb., 230, 232; March, 357; April, 488; May, 614; June, 739.
Indiana Roentgen Society, Jan., 102; Feb., 230, 232; March, 357; April, 488; May, 614; June, 739.
Indiana Roentgen Society, Jan., 102; Feb., 230, 232; March, 357; April, 488; May, 614; June, 739.

June, 739.

June, 739.

June, 739.

Juniana Roentgen Society, Jan., 102; Feb., 230, 232;

March, 357; April, 488; May, 614; June, 739.

Jowa State Medical Society, June, 737.

Jowa X-ray Club, Jan., 102; Feb., 230, 232; March, 357;

April, 488; May, 614; June, 739.

Kansas City Radiological Society, Jan., 103; Feb., 233;

March, 358; April, 489; May, 615; June, 740.

Long Island Radiological Society, Jan., 103; Feb., 233;

March, 358; April, 489; May, 615; June, 740.

Los Angeles County Medical Association, Radiological Sect.,

Jan., 102; Feb., 232; March, 357; April, 488; May, 614;

June, 739.

Medical Society of West Virginia. See West Virginia State

Medical Association.

Memphis Roentgen Club, Jan., 104; Feb., 234; March, 359;

Medical Association.

Memphis Roentgen Club, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.

Michigan Association of Roentgenologists, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.

Michigan State Medical Society, Feb., 228; June, 736.

Milwaukee Roentgen Ray Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.

Minnesota Radiological Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615, 622; June, 740. Multnomah County (Oregon) Medical Society, Feb., 229. Nebraska Radiological Society, Jan., 103; Feb., 233, 229; March, 358; April, 489; May, 615; June, 740. New England Roentgen Ray Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740. New York Academy of Medicine, Twelfth Graduate Fortnight of, May, 621.
New York Roentgen Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740. North Carolina Medical Society, Feb., 228. Oregon State Medical Society, Feb., 228. Oregon State Medical Society, Feb., 228. Oregon State Medical Society, Feb., 228, 232; March, 357; April, 488; May, 614; June, 739. Pennsylvania Radiological Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Philadelphia County Medical Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Pittsburgh Roentgen Ray Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Radiological Sect. of Wisconsin State Medical Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Radiological Sect. of Wisconsin State Medical Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Radiological Sect. of Wisconsin State Medical Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Radiological Sect. of Wisconsin State Medical Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Radiological Sect. of Wisconsin State Medical Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741. Radiological Sect. of Visconsin State Medical Society, April, 490; May, 616; June, 741. Radiological Sect. of Visconsin State Medicane (Cincinnati Roentgenologists), Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.

Radiological Society of North America. See under Radiological.
Radiological Society of North Carolina, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.
Radiological Society of Virginia, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.
Rochester Roentgen-ray Society, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.
St. Louis Society of Radiologists, Jan., 103; Feb., 233; March, 358; April, 489; May, 615; June, 740.
San Francisco Radiological Society, Jan., 102; Feb., 232; March, 357; April, 488; May, 614; June, 739.
South Carolina X-ray Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.
Tennessee State Radiological Society, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.
Texas Radiological Society, Jan., 104; Feb., 229, 234; March, 359; April, 490; May, 616; June, 741.
University of Wisconsin Radiological Conference, Jan., 104; Feb., 234; March, 359; April, 490; May, 616; June, 741.

741.
Washington State Radiological Society, Jan., 104; Feb., 234; March, 359; April, 490; May 616; June, 741.
West Virginia State Medical Association, Feb., 228.
See Inter-Society Committee for Radiology, in Author Index.

SPINAL CORD

Neurological tumors, Some experiences, experimental and clinical, with direct irradiation of, during operation with low voltage radiation, J. R. Carty and B. S. Ray, March, 325.

329.

Radiculo-medullary compression in course of malignant granulomatosis (ab.), J. Froment, P. Croizat, and R. Masson, Jan., 125.

SPINE

Anomalies of spine (ab.), W. Bailey and R. A. Carter, Jan., 125.

125.
Anomalies of vertebral articular apophyses (ab.), F. Willemin and M. Cantagrill, April, 517.
Calcification of meniscus and hypertrophic spurring (ab.), Roederer, Gaucher, and Jésover, April, 517.
Cancer, Remarks on vertebral (ab.), F.-G. Marill, R. Raynaud, and A. Huguenin, April, 517.
Cervical spine, Three cases of injury to, including one of unrecognized fracture of odontoid (ab.) Brillouet and A. Viel, March, 372.
Changes in vertebral column following tetanus (ab.).

Unic Commerce, 372.

Changes in vertebral column following tetanus (ab.), E. Feistmann-Lutterbeck, May, 645.

Cranial and spinal lesions in epileptic: difficulties of interpretation (ab.), R. Raynaud, A. Huguenin, and H. Tillier, April, 505.

Behinococcus of spine, Case of, difficult to interpret roent-genologically (ab.), C. Guidotti, May, 645.

Hemangioma, Compression of vertebra by, which was clinically cured by radiotherapy (ab.), C. de Luca, May, 644.

Hemangioma of vertebræ, Radiation therapy of primary (ab.), I. H. Lockwood and C. E. Bell, May, 644. Hodgkin's disease of bones (ab.), H. S. Lieberman, March, 367.

Intervertebral cartilage, Displacement of, as cause of back pain and sciatica (ab.), E. F. Fincher and E. B. Walker, March, 366.

March, 366.

Low back and sciatic pain, Hypertrophy of ligamentum flavum as factor in production of (ab.), W. D. Abbott, March, 366.

Low back and sciatic pain, intractable due to protruded intervertebral disks: diagnosis and treatment (ab.), J. G. Love, June, 748.

Lower back, Orthopedic aspect of pain in (ab.), L. W. Breck Feb. 249

Osteo-arthritis due to Brucella melilensis, Vertebral (ab.), H. Duclos, April, 517.
Osteomyelitis of spine, Acute infective (ab.), P. Turner, Jan., 124.
Paraplegia from erosion of vertebral column by large thoracic aneurysm, M. J. Hubeny and P. J. Delano, Feb., 171.
Pathologic conditions of spine: painful disturbances of intervertebral foramina (ab.), L. A. Hadley, Jan., 124.
Roentgen late injuries (ab.), F. John, April, 515.
Schmorl's cartilage islands (ab.), K. Overgaard, Jan., 125.
Tuberculous spondylitis, Roentgen diagnosis of (ab.), N. Westermark and G. Forssman, May, 644.
Vertebral disease, case of, difficult to diagnose, in retrospect (ab.), C. Roederer and Choffat, May, 644.
Vertebral metastasis from carcinoma of breast treated by teleroentgentherapy (ab.), A. Poulain, Feb., 250. teleroentgentherapy (ab.), A. Poulain, Feb., 250.

tuberculosis in Bone tuberculosis, Unusual manifestations of, B. P. Wid-mann, H. W. Ostrum, and R. F. Miller, April, 434 (435).

SPLEEN Chauffard-Still's disease, treatment of (ab.), F. LePennetier,

March, 385.

Hemorrhagic disorders, roentgen treatment of certain (ab.),
L. H. Garland, March, 385.

STERILITY

Sterility, Roentgen treatment of menstrual dysfunctions and: analysis of 108 cases, S. Bruck and J. M. Fruchter, April, 446.

STOMACH

Cancer of stomach, Early diagnosis of (ab.), L. J. Notkin,

Cancer of stomach, Early diagnosis of (ab.), L. J. Notkin, June, 752.

Cancer of stomach, Symptoms, diagnosis, and treatment of (ab.), J. S. Horsley, March, 385.

Cancer, Two cases of gastric: difficulty of radio-diagnosis of lesions of pyloric antrum (ab.), P. Vasselle, March, 369.

Cancer, X-ray diagnosis of gastric (ab.), A. J. Delario, June, 752.

Cardiac end of stomach simulating soft tissue tumefaction in supine position, Shadow of, L. Nathanson, April, 473.

473.
Cardiospasm: report of case, M. Golob, April, 481.
Evacuation of stomach, Influence of pituitrin on (ab.), R. I. Levina, Jan., 126.
Fibroma of stomach, True (ab.), C. B. Udaondo, E. Finochietto, and D. Mosto, May, 647.
Gastric and duodenal ulcers, Limitations of internal medical treatment of (ab.), H. Müller, March, 381.
Gastric lesion produced by posterior pituitary extract (ab.), M. H. Metz, Jan., 125.
Gastroscopic studies (ab.), E. H. Gaither and J. L. Borland, Jan., 126.
Hematemesis and diaphragraphic between the control of the con

Jan., 126.

Hematemesis and diaphragmatic hernia of stomach (ab.), P. Carnot and A. Lafitte, March, 386.

Hyperthyroidism and hypothyroidism on gastric evacuation, Influence of (ab.), R. I. Levina, March, 386.

Images of antrum, Inorganic lacunar (ab.), P. Porcher, March, 386.

Multiple ulcers of stomach and duodenum (ab.), P. Savy, M. Girard, and Z. Khayat, Jan., 121.

Myosarcoma of stomach: report of two cases, L. G. Allen and P. E. Hiebert, May, 567.

Tumors of upper pole of stomach (ab.), B. Stenström, Jan., 129.

129.
Ulcer of stomach, Double: radiographs and specimen (ab.), V. Paschetta, May, 636.
inflammation
Roentgenologic consideration of gastritis, M. Feldman,

June, 726. volvulus

Stomach, Volvulus of (ab.), P. Chêne and M. Ramadout Ian., 125. STRATIGRAPHY

Lungs and bones, Stratigraphy of (ab.), Delaborde, June, 746. Pulmonary stratigraphy, Practical (ab.), C. Gaillard, June, 747.

SURGERY

Carcinoma of breast, Value of radiation in treatment of, L. G. Allen, Jan., 63. SYPHILIS

BHLIS
Bones and joints, Syphilis of (ab.), F. A. Jostes and M. B.
Roche, May, 645.
Bone syphilis, Roentgenological manifestations in (ab.),
D. M. Stewart, April, 518.
Gastrie syphilis, pseudo-neoplastic type: clinical and
radiologic study (ab.), H. Marc and Sire, May, 645.
Gastrie syphilis, Two cases of (ab.), P. A. Blinkenberg, May,
645.

Osteitis simulating malignant disease, Luetic (ab.), A. H. Ungerman, W. H. Vicary, and W. W. Eldridge, April, 517.

Focal (dental) infection, Diagnosis of, especially by means of roentgenogram (ab.), W. Praeger, Feb., 255.

TELEROENTGEN THERAPY

INCOMPTOENT I BEAGET.

Injury of blood in consequence of teleroentgen therapy of whole body, Serious (ab.), D. den Hoed, B. Levie, and M. Straub, March, 386.

TEMPERATURE

Influence of low temperature on recovery from roentgen rays, E. V. Cook, March, 289.

TEMPORAL BONE

Radiograms and anatomical sections of temporal bone, Comparative study of (ab.), C.-G. Zachrisson, Jan., 123. Petrous tip suppuration: report of three cases, observations on (ab.), D. E. S. Wishart, Feb., 256.

Chorionepithelioma testis, with record of case, Observations on (ab.), S. McDonald, Jr., March, 388.

Vertebral column, Changes in, following tetanus (ab.), E. Feistmann-Lutterbeck, May, 645. Adipose tissue, Roentgen diagnostic importance of, J. Silbermann, Jan., 77 (82).

Silbermann, Jan., 77 (82).

Aneurysm, Paraplegia from erosion of vertebral column by large thoracic, M. J. Hubeny and P. J. Delano, Feb., 171.

Intrathoracic lesions, Density of central shadow in diagnosis of, L. G. Rigler, March, 316.

Planigraphy—its application to thoracic diagnosis, W. E. Howes, May, 556.

Pulmonary "biotomes" taken with apparatus of Bocage, Presentation of several (ab.), Léon-Kindberg and L. Gérard, Feb., 247.

Radiography of heart, Cross-sectional, G. Danelius, Feb., 190 (191).

THORIUM DIOXIDE

Lymphatics (ed.), April, 491.

THROMBOSIS, axillary

Venography in case of so-called traumatic thrombosis of axillary vein (ab.), O. Andersson, Jan., 130.

Carcinoma and venous thrombosis: frequency of asso-ciation of carcinoma in body or tail of pancreas with multiple venous thrombosis (ab.), E. E. Sproul, June,

THYMUS

Carcinoma of thymus, with marked pulmonary osteo-arthropathy, E. R. Miller, June, 651. Thymus shadow in 2,000 new-born, Study of relations be-tween birth weight and size of (ab.), S. W. Donaldson, THYROID

YROID
Goiter, Relief of anginoid pain following removal of intrathoracic non-toxic nodular (ab.), J. Edeiken and E. Rose, Feb., 259.
Hyperthyroidism and hypothyroidism on gastric evacuation, Influence of (ab.), R. I. Levina, March, 386.
Hyperthyroidism, Treatment of, with consideration of other of ductless glands as trigger mechanism: based upon observation of 360 cases, I. W. Jenkins, March, 340.
Osteoporosis in hyperthyroidism (ab.), E. C. Bartels and G. E. Haggart, Feb., 249.

TIRIA Adolescent tibia vara, J. A. Siegling and J. B. Gillespie, April, 483. TONGUE, inflammation Glossitis, Median rhomboid, J. F. Sammet, Feb., 215. TONSILS

Papilloma of tonsil, with report of three cases (ab.), I. Frank, March, 387. Tonsillitis, Roentgen therapy of chronic, (ab.), P. Heb, March, 386.

Waldeyer's ring in children, Roentgen therapy of diseases of (ab.), H. Weissig, March, 387.

TRACHEA Tracheal stenosis from roentgen therapy (ab.), L. H. Clerf and F. J. Putney, April, 514. TUBERCULOSIS

BERCULOSIS
Chest, Skiagraphy of (ab.), G. Jessel, Jan., 119.
Silicosis, Factors which determine diagnosis of (ab.), C. L.
Sulterland, May, 643.
Silicosis, Study of (ab.), P. B. Matz, March, 384.
Spondylitis, Roentgen diagnosis of tuberculous (ab.), N.
Westermark and G. Forssman, May, 644.
Ulcerations of lung, Tuberculous, and pulmonary cavities
(ab.), B. Faccini, May, 634. of intestines

Tuberculosis of intestines in tuberculous anthracosilicosis (ab.), R. Charr and A. C. Cohen, Jan., 126.

Bone tuberculosis, Unusual manifestations of, B. P. Wid-mann, H. W. Ostrum, and R. F. Miller, April, 434.

Adjose tissue, Roentgen diagnostic importance of, J. Silbermann, Jan., 77 (83).

Barium enemas to disclose latent intestinal tuberculosis in cases with pulmonary tuberculosis. Necessity of systematic use of (ab.), M. Picard, Jan., 128.

Calcifications within lungs, Significance of (ab.), D. A. Rhinehart, March, 380.

Childhood tuberculosis, Certain significant aspects of (ab.), R. M. Tyson, Jan., 127.

Contralateral spontaneous pneumothorax complicating artificial pneumothorax, (ab.), J. B. Andosca, April, 513.

Cure of some forms of pulmonary tuberculois Section 1.

Cure of some forms of pulmonary tuberculosis, Spontaneous (ab.), O. Maestri, April. 519.

iagnosis and management of latent, suspected, and early clinical tuberculosis (ab.), H. W. Hetherington, April, 518. Diagnosis

April, 518.

Pneumonia, Resolving lobar, in adults simulating tuberculosis in roentgenogram (ab.), S. Cohen, March, 382.

Pneumothorax in children, Artificial (ab.), P. F. Fitzpatrick,

April, 513.

April, 513.
Pulmonary [valve] in fibrothorax, Relative insufficiency of (ab.), N. Cavarozzi, Jan., 119.
Radiography in primary tuberculous angina, Diagnostic value of insufficiency of radioscopy (ab.), L. Weigel, May, 633

oi: insulticiency of radioscopy (ab.), L. Weigel, May, 633.
Radiological disappearance of cavities immediately following phrenico-exeresis and their re-appearance after variable lapse of time (ab.), V. Basunti, April, 518.
Roentgen therapy through small fields of pulmonary tuberculosis, Direct (ab.), G. Faldella, April, 518.
Roentgenography of pulmonary tuberculosis (ab.), H. E. Potter, April, 518.
Spontaneous rib fracture among tuberculous, Radiological study of (ab.), C. Sabbione, Jan., 127.
Thoracic diagnosis, Planigraphy—its application to, W. E. Howes, May, 556 (559).
Tuberculin, Correlation of positive reaction to, and shape of chest (ab.), S. A. Weisman, April, 519.
Tuberculous bronchogenic dissemination, Necessity for repeated roentgen investigation in late manifestations of (ab.), H. Bartsch and S. Zollner, March, 379.
Tuberculous lesions, Effect of unilateral pneumothorax on pre-existing, in opposite lung (study of 200 cases), ab., U. de Michelis and E. Conte, April, 513.
Tuberculous pneumonia (ab.), J. W. Strayer, March, 382.
Repal tuberculosis (ab.), C. D. Donahue, May, 646.

renal

Renal tuberculosis (ab.), C. D. Donahue, May, 646. Renal tuberculosis, Has excretory urography replaced retrograde pyelography in diagnosis of? (ab.), J. L. Emmett and W. F. Braasch, Jan., 128. Sacro-iliac tuberculosis (ab.), F. Thompson, March, 387

Benign giant-cell tumor of bone, Roentgen diagnosis and treatment of (ab.), J. A. Meadows and K. F. Kesmodel, March, 367.

Bladder tumors, Radiological diagnosis of (ab.), W. Sitkow-ski, June, 749.

Bone tumors (ab.), C. A. Hellwig and C. H. Warfield, March, 368.

Bone tumors (ab.), C. A. Hellwig and C. H. Warneld, March, 368.

Bone tumors (ab.), G. J. McChesney, R. L. Carroll, and K. S. Davis, March, 368.

Bony intracranial tumors (ab.), C. Pilcher, May, 647.

Calcified scrotal tumor, A. Fine and S. Brown, Jan., 92.

Cancer of lung, Primary (ab.), D. S. King, April, 511.

Carcinoma of lung, Roentgenographic images in primary, L. A. Hochberg, June, 713.

Carcinoma of prostate, Metastases from occult (ab.), O. S. Culp, April, 513.

Colospasms, Causes and results (ab.), L. Gleize-Rambal, Feb., 255.

Cystic hygroma of neck (ab.), B. L. Flemming, Jan., 129.

Duodenum and jejunum, Primary tumors of, and lymphogranuloma of duodenum (ab.), M. Cace, April, 519.

Fibroma of stomach, True (ab.), C. B. Udaondo, E. Finochietto, and D. Mosto, May, 647.

Giant-cell tumor of bone (ab.), B. L. Coley and N. L. Higin-bottam, March, 367.

Giant-cell tumor of bone (ab.), B. L. Coley and N. L. Higin-botham, March, 367.
Giant-cell tumor ("osteoclastoma") of femur treated with x-rays (ab.), S. Dechambre, E. Dechambre, and J. Nebout, May, 648.
Histological tumor variants and their influence upon radiosensitivity, Some, I. A. B. Cathie, April, 425.
Larynx, Tumors of (ab.), F. A. Figi, May, 632.
Lymphoblastoma, Irradiation of cutaneous manifestations of (ab.), R. G. Pett, April, 520.
Malignant tumors of uterus, Multiple heteromorphologic, H. W. Jacox, G. Major, and M. R. Baker, Jan., 51.
Malignant tumors, Surgical standpoint regarding radiation therapy of (ab.), F. Sauerbruch, in collaboration with K. Middeldorpl, March, 389.
Mammography by contrast media, Limitations and dangers of (ab.), S. A. Romano and E. M. McFetridge, April, 504.

Mediastinal tumors, Roentgen kymographic studies of aneurysms and (ab.), W. G. Scott and S. Moore, March, 377.

377.
Mixed tumors of hard palate (ab.), F. T. Hill, March, 389.
Myoma uteri, Treatment of (ab.), T. B. Lee, May, 650.
Myosarcoma of stomach: report of two cases, L. G. Allen
and P. E. Hiebert, May, 567.
Neurological tumors, Some experiences, experimental and
clinical, with direct irradiation of, during operation with
low voltage radiation, J. R. Carty and B. S. Ray, March,
325.

ozon.

Jacox, May, 538 (541).

Perisellar tumors, X.-ray aspect of (ab.), T. Blühbaum and M. Spritzer, May, 648.

Primary malignant lesions, Occurrence of two or more, J. J. Collins, April, 482.

Conns, April, 402.
Primary sarcoma in peri-myocardium (ab.), P. Cossio and
I. Berconsky, May, 631.
Pylorus, Pedunculated cancer of (ab.), Poirier and Lamoureaux, April, 520.

Radiation therapy of sarcomas, Results of (ab.), O. Walther, May. 642

Radiosensitivity of Ewing's tumor (ab.), G.-C. Leclerc, May,

648.
Renal carcinoma: study of 95 cases with follow-up notes on 36 (ab.), T. R. Fetter, April, 509.
Renal tumors (ab.), J. C. McClelland and J. R. F. Mills, March, 389.
Renal tumors: review of 130 cases (ab.), H. A. Soloway, March, 388.
Renal tumors: review of review of 130 cases (ab.), G. Daniel, May 650.

May, 500.
Stomach, On tumors of upper pole of (ab.), B. Stenström, Jan., 129.
Sulcus tumor simulating subacromial bursitis, Superior pulmonary (ab.), L. Nathanson, L. A. Hochberg, and R. Perlman, March, 388.
Teratomas and dermoid cysts (ab.), W. Kuzma, May,

646.

Thoracic diagnosis, Planigraphy—its application to, W. E. Howes, May, 556 (563, 566).

Tumors, Classification of (ab.), L. A. Pomeroy, Jan., 129.

Uterine fibroids, Use of radium in treatment of (ab.), L. Feid, Jr., Jan., 122.

adamantinoma

Adamantinoma of tibia (ab.), B. Wolfort and D. Sloane, March, 389.

adenoma

Malignant papillary cystadenoma in double kidney (ab.),
N. F. Ockerblad and H. E. Carlson, April, 510.

goma Angiomas, Calcification in (ab.), F. Y. Khoo, Jan., 128. Hemangioma, Compression of vertebra by, which was clinically cured by radiotherapy (ab.), G. de Luca, May,

644.
Hemangioma involving bones of extremities, Primary (ab.), C. F. Geschickter and I. H. Maseritz, Feb., 250.
Hemangioma of vertebra, Radiation therapy of primary (ab.), I. H. Lockwood and C. E. Bell, May, 644.
Hemorrhoids and ano-rectal angiomas in infants (ab.), A. Bensaude and F. Bertillon, Jan., 123.
Radium therapy of hemangiomas (ab.), W. Baensch, April, 518.

old. Roenigen therapy by method of Chaoul, E. P. Pendergrass, P. J. Hodes, and C. J. Garrahan, Feb., 142 (148). chondroma Chondroma, So-called pulmonary (ab.), N. P. G. Edling, March, 388.

chordoma Chordoma, with report of two cases (ab.), R. F. Ridpath, March, 387. chorionepithelioma
Chorionepithelioma in male (ab.), E. J. Knoflicek, March,

Chorionepithelioma testis, with record of case, Observa-tions on (ab.), S. McDonald, Jr., March, 388.

of kidney (Wilms' tumor), ab., W. E. Ladd, April, 510.

fibroma
Irradiation of fibromas, Involution of uterine cavity after
(ab.), Guilbert, Tortat, Frain, and Le Guern, May, 649.
Uterine fibroids, Use of radium in treatment of (ab.), L.
Feid, Jr., Jan., 122.
leiomyoma

Leiomyoma of oral cavity (ab.), A. P. Stout, March, 387.

lipoma
Adipose tissue, Roentgen diagnostic importance of, J.
Silbermann, Jan., 77.
Pedunculated lipoma of colon nine years after resection of carcinoma of colon, Large, O. C. Julian, April, 479.
lymphocytoma
Lymphocytoma, Progress of case of (ab.), Brillouet and A,
Viel, March, 389.

elanoma
Melanoma, Case of (ab.), M. Arnaud, April, 520.
Tumor variants and their influence upon radiosensitivity,
Some histological, I. A. B. Cathie, April, 425 (432).
eningioma. See Meninges, tumors. osteoma

Osteoma of maxillary sinus (ab.), A. G. Rawlins, March, 384. papilloma

puloma
Papilloma of kidney pelvis, Roentgenologic demonstration
of (ab.), H. Keilhack, March, 377.
Tonsil, Papilloma of, with report of three cases (ab.), I.
Frank, March, 387.

sarcoid

Sarcoidosis: report of case (ab.), W. B. Blanton, March,

TYPHOID, complications and sequelæ
Typhoid empyema: report of case operated upon and cured
(ab.), A. C. Neto and J. Finocchiaro, Jan., 119.

ULTRA-VIOLET LIGHT

Body weight, Influence of ultra-violet rays on, F. Ellinger, Feb., 157.

reb., 157.

Erysipelas with ultra-violet energy, Treatment of, M. E. Knapp, Feb., 195.

Mitogenetic radiation, Present status of, A. Hollaender, April, 404.

Ultra-violet therapy: several new sources of radiation, their mechanism of action and clinical indications (ab.), E. Biancani and H. Biancani, Jan., 130.

Vitamin C content of milk, Effect of ultra-violet rays on (ab.), H. Schroeder, Jan., 130.

URETERS

Dilatation of lower thirds of left ureters, Two cases of cystic (ab.), E. Herskowits, April, 507.
Dilatations of upper urinary tract in children, Non-obstruc-tive (ab.), A. B. Hepler, April, 507.
UROGRAPHY

'Excretory urography by intramuscular injection of dio-drast," Authors' note on, H. B. Hunt and A. M. Popma,

"Excretory urography by intramuscular injection of diodrast," Authors' note on, H. B. Hunt and A. M. Popma, Jan., 113.

Heminephrectomy in disease of double kidney (ab.), E. Beer and W. H. Mencher, April, 509.

Renal tuberculosis, Has excretory urography replaced retrograde pyelography in diagnosis of? (ab.), J. L. Emmett and W. F. Brasch, Jan., 128.

Urinary calculus, Brief review of 426 consecutive cases of (ab.), H. P. Winsbury-White, Feb., 251.

UROLOGY

Urology, Low back pain in relation to (ab.), S. F. Wildman, UTERUS

June, 748.

Cancer of cervix: therapeutic and biological thoughts (ab.), S. Laborde, April, 520.

Carcinoma, Development of treatment methods for uterine, at Woman's Clinic of University of Würzburg (ab.), T. C. Neeff, May, 649.

Carcinoma of cervix and breast: prognosis and preferable therapy (ab.), E. D. Greenberger, March, 370.

Carcinoma of cervix, Radium therapy of (ab.), K. Wasserburger and H. Smercker, Jan., 122.

Carcinoma of cervix, Results and experiences in treatment of, with special consideration of radium therapy (ab.), P. Caffier, May, 649.

Carcinoma of cervix, Results in treatment of, at Women's Clinic of University of Göttingen from 1926 to 1937 (ab.), F. Erichsen, April, 520.

Carcinoma of cervix, Treatment of, in Women's Clinic of University of Königsberg from 1910 to 1937 (ab.), F. v. Mikulicz-Radecki, March, 390.

Carcinoma of cervix uteri, Treatment of (ab.), R. E. Myers, March, 369.

Carcinoma of uterine cervix (ab.), H. H. Bowing and R. E. Fricke, May, 649.

Carcinoma of uterus, Avoidance of injurious effects on bladder in radiation therapy of (ab.), T. C. Neeff and F. Hoff, June, 749.

Carcinoma of uterus, Is it possible to use radium bomb for intravaginal treatment of and would it be proceible to internation of the contract of the contraction of the contracti

June, 749.
Carcinoma of uterus, Is it possible to use radium bomb for intravaginal treatment of, and would it be possible to improve considerably distribution of radiation? (ab.), R. du Mesnil de Rochemont, April, 515.
Carcinoma of uterus, Thirty years' experience in treatment of (ab.), A. Mayer, March, 390.
Carcinoma, Present method of radiation therapy of uterine, in first gynecological clinic of University of Munich (ab.), F. G. Dietel, May, 650.
Cervix carcinoma, Early results in, from single and divided doses of roentgen radiation (ab.), A. N. Arneson, March, 371.
Cervix uteri. Factors relating to treatment of (ab.), C. M.

371.
Cervix uteri, Factors relating to treatment of (ab.), G. H.
Johnson, March, 390.
Collum carcinoma, Results obtained in radiation treatment
of inoperable (ab.), I. de Büben, March, 370.
Fibroids, Pretended responsibility of roentgen therapy for
sarcomatous degeneration of irradiated (ab.), G. Daniel,
May, 650.

Fibromas, Involution of uterine cavity after irradiation of (ab.), Guilbert, Tortat, Frain, and Le Guern, May, 649. Hemorrhagic metritis cured by roentgen irradiation of hypophysis, Case of (ab.), J. Moro and Monmignaut, April, 507.

SUC.
Malignant tumors of uterus, Multiple heteromorphologic, H. W. Jacox, G. Major, and M. R. Baker, Jan., 51. Myoma uteri, Treatment of (ab.), T. B. Lee, May, 650. Placenta previa, Roentgenologic diagnosis: indirect placentography (ab.), W. H. Ude, J. A. Urner, and F. O. Robbins, June, 749.

Radiotherapy in non-malignant uterine hemorphase (ab.)

Robbins, June, 749.
Radiotherapy in non-malignant uterine hemorrhage (ab.),
B. Windeyer, May, 631.
Radium therapy of hemorrhagic metropathies, Intra-uterine
(ab.), A. Pickhan, May, 641.
Uterine fibroids, Use of radium in treatment of (ab.), L.
Feid, Jr., Jan., 122.
morrhage

hemorrhage Metrorrhagia cured by radiotherapy: subsequent preg-nancy (ab.), Dano and Lainé, April, 507.

VEINS
Axillary vein, Venography in case of so-called traumatic thrombosis of (ab.), O. Andersson, Jan., 130.
X-ray inquiry into genesis of current of venous blood and lymph, K. Mayer, March, 275.
VERUCA:

Plantar wart (ab.), W. Kelton, April, 520.
Plantar warts, Treatment of: clinical memorandum (ab.),
H. Haldin-Davis, April, 520.

vulgaris
Roentgen therapy by method of Chaoul, E. P. Pendergrass,
P. J. Hodes, and C. J. Garrahan, Feb., 142 (148).

VERTEBRÆ. See Spine.

AMINS
Leukopenia, Therapy of x-ray (ab.), C. Carrié, April, 515.
Vitamin C content of milk, Effect of ultra-violet rays on
(ab.), H. Schroeder, Jan., 130.
Vitamin D in chronic arthritis, Massive doses of: effect on
calcium metabolism (ab.), C. L. Steinberg, March, 366.

WARTS. See Verruca WRIST

ISI Os centrale of wrist (ab.), R. O. Tanguy, March, 390. Traumatic axial rotation by gear movement of carpal scaphoid and trapezium with subluxation and foreshortening of first metacarpal (ab.), A. A. Schmier and M. S. Burman, March, 390.

AUTHORS

ABBOTT, WALTER D. (ab.), Hypertrophy of ligamentum flavum as factor in production of low back and sciatic pain, March,

386.

ADAM, A. (ab.), Studies regarding technic and methods in radiation therapy of carcinoma of esophagus, Feb., 257.

AKERLUND, AKE (ab.), Formation of transparent gas-filled from for radialogical

AKERLUND, AKE (ab.), Formation of transparent gas-filled fissures in gallstones, and their significance for radiological diagnosis, June, 751.

ALDRICH, C. A., and ANSPACH, W. E., Rupture of esophagus from blow on abdomen, Jan., 93.

ALLEN, LEWIS G., Value of radiation in treatment of carcinoma of breast, Jan., 63.

ALLEN, LEWIS G., and HIEBERT, P. E., Myosarcoma of stomach: report of two cases, May, 567.

ALLEN, LEWIS G., with WALKER, MAURICE A., jt. auth.

ANDERSON, DAVID P., with ELIASON, ELDRIDGE L., jt. auth.

auth.

ANDERSON, WILLIAM WILLIS (ab.), Congenital lung cysts:
air expansile types, May, 634.

ANDERSSON, OLOF (ab.), Venography in case of so-called
traumatic thrombosis of axiliary ven., Jan., 130.

ANDOSCA, JOHN B. (ab.), Contralateral spontaneous pneumothorax complicating artificial pneumothorax, April., 513.

ANDREWS, J. ROBERT, Technic of x-ray treatment of operable
cancer of breast based upon analysis of Keynes' radium
technic, March, 294.

ANSPACH, W. E., with ALDRICH, C. A., jt. auth.

ARKIN, AARON (ab.), Primary carcinoma of lung: clinical
study of 160 cases in five years, March, 379.

ARNAUD, M. (ab.), Case of melanoma, April, 520.

ARNESON, A. N. (ab.), Early results in cervix carcinoma
from single and divided doses of roentgen radiation, March,
371.

ARONSTEIN, ERNST, Roentgen epilation, Jan., 95.

BAENSCH, W. (ab.), Radium therapy of hemangiomas, April,

BAILEY, WILBUR, and CARTER, RAY A. (ab.), Anomalies of

BAILEY, WILBUR, and KNOLL, WILLIAM V., Gastrocolic fistula. March. 346.

BALLEY, WILDUR, and fistula, March. 346.

BAKER, MARGARET R., with JACOX, HAROLD W., jt. auth.

BANDHAUER, E. (ab.), Results of radiation therapy in carcinoma of hypopharynx, Feb., 252.

BARCLAY, A. E., FRANKLIN, K. J., and MACBETH, R. G. (ab.), Radiographic studies of excretion of dusts from

BARCLAY, A. E., FRANKLIN, K. J., and MADDLIN, A. C. (ab.), Radiographic studies of excretion of dusts from lungs, May, 635.
Idem (ab.), Roentgenographic studies of excretion of dusts from lungs, March, 384.
BARDY, A. (ab.), Simple procedure for radiography of optic canal, Feb. 248.
ALLEW MATTER SON WRIGHT, it, auth.

canal, Feb., 248.

BARKER, ALLEN, with CLARKSON, WRIGHT, it. auth.

BARRINGER, BENJAMIN S. (ab.), Radium therapy
of bladder carcinoma: five-year results, failures, and future

therapy, May, 641.

BARTELS, ELMER C., and HAGGART, GILBERT E. (ab.),
Osteoporosis in hyperthyroidism, Feb., 249.

BARTH, FRIEDERIKE (ab.), Concurrence of radiologic signs, and electrocardiographic changes in myocardial damage.

and electrocardiographic changes in myocardial damage, May, 631.

BARTSCH, H., and ZOLLNER, S. (ab.), Necessity for repeated roentgen investigation in late manifestions of tuberculous bronchogenic dissemination, March, 379.

BARTSTA, D. S. (ab.), Radiologic characteristics of so-called "large duodenal ulcer," May, 636.

BASSEN, FRANK A., with ROSENTHAL, NATHAN, it. auth. BASUNTI, V. (ab.), Radiological disappearance of cavities immediately following phrenico-exeresis and their re-appearance after variable lapse of time. April, 518.

DE BEAUJEI, JAUBERT, with BRUN, it. auth. BEER, EDWIN, and MENCHER, WILLIAM H. (ab.), Heminephrectomy in disease of double kidney, April, 509.

BEGE with BRUN, it. auth.

BEGG, A. M. (ab.), Cancer campaign: suggestions for better treatment of malignant growths, Feb., 253.

BEHR, E., and HUIZINGA, EELCO (ab.), Division of lung segments in right upper lobe, May, 635.

BELL, CHARLES E., with LOCKWOOD, IRA H., jt. auth,
BELL, JOSEPH C., Further consideration of roentgen-ray manifestations in amebic infections of large bowel, March, 332.
BELOT, NAHAN, and MARQUIS (ab.), Several cases of radiodermatitis and active ulceration treated and cured by halibut

dermatitis and active ulceration treated and cured by halibut liver ointment, April 514.

BENSAUDE, ALFRED, and BERTILLON, F. (ab.), Hemor-rhoids and ano-rectal angiomas in infants, Jan., 123.

BERCK, MAURICE, and HARRIS, WILLIAM, Further ex-perience with roentgen therapy for bronchiectasis, June, 693.

BERCONSKY, I., with COSSIO, P., jt. auth.
BERCONSKY, I., with CROHN, BURRILL B., jt. auth.
BERGENDAL, ASTA (ab.), Review of 20 years' radium treat
ment of lip cancer at Radiological Clinic, Lund, Sweden,

BERNASCONI, FR., VIALLET, CH., and MARCHIONI, R. (ab.), Case of large opacity in prostate, April, 513.
BERNER, F., with HOLFELDER, H., it auth.
BERNET, E. J., with PARKINSON, D. B., it. auth.
BERTILLON, F., with BENSAUDE, ALFRED, jt. auth.
BERTTRAND, P., with CARTERET, it. auth.
BEST, R. RUSSELL, and HICKEN, N. FREDERICK (ab.),
Non-operative menagement of remaining common duct stones, Feb., 251.
BEST, R. RUSSELL, with HICKEN, N. FREDERICK, jt. auth.
BEST, R. RUSSELL, with HICKEN, N. FREDERICK, jt. auth.
BEST, R. RUSSELL, with HICKEN, N. FREDERICK, jt. auth.
BEST, R. RUSSELL, with HICKEN, N. FREDERICK, jt. auth.
BEST, R. RUSSELL, with HICKEN, N. FREDERICK, jt. auth.
BEST, R. RUSSELL, with HICKEN, N. FREDERICK, jt. auth.
BESTAGH, C. J. (ab.), Effects of pentothal sodium on electrocardiogram of patients with essential hypertension, Jan., 128.

Eardingram of pattents with essential hypertension, Jan., BETOULIÈRES, with LAMARQUE, jt. auth.
BÉTOULIÈRES, PIERRE, with TERRACOL, J., jt. auth.
BIANCANI, E., and BIANCANI, H. (ab.), Ultra-violet therapy: several new sources of radiation, their mechanism of action and clinical indications, Jan., 130.
BIANCANI, H., with BIANCANI, E., jt. auth.
BIERMAN, WILLIAM, and LEVENSON, CARL L., Fever therapy in gonococcal infections, April, 454.
BINET, E., and DILLENSEGER (ab.), Large calculus of gall bladder with suppuration, Feb., 251.
BISCHOFF, L. (ab.), Instructive case of ancurysm of heart wall with "tecter-movement" symptom, June, 746.
BLADY, JOHN V., and HOCKER, ALFRED F., Application of sialography in non-neoplastic diseases of parotid gland, Feb., 131.

Feb., 131.

BLANTON, WYNDHAM B. (ab.), Sarcoidosis: report of case,

BLINKENBERG, P. A. (ab.), Two cases of gastric syphilis,

May, 645.

BLÜHBAUM, TEOFIL, and SPRITZER, MARCELI (ab.),
X-ray aspect of perisellar tumors, May, 648.

BOCAGE, M. A. (ab.), Biotome: presentation of apparatus,

BOCAGE, M. A. (ab.), Biotome: presentation of apparatus Feb., 247.

BOCCA, C. (ab.), Mega-esophagus and narrowing of terminal portion of esophagus, Feb., 257.

BODMER, H., with HIRSCHI, H., jt. auth.

BOLAND, S. J. (ab.), Radiology of gastro-intestinal tract: value of co-operation, April, 506.

BORLAND, JAMES L., with GAITHER, ERNEST H., jt.

auth.

BOUWERS, A. (ab.), Technic of neutron production and the production of artificial radio-activity, April, 591.

BOWING, HARRY H., and FRICKE, ROBERT E. (ab.), Carcinoma of uterine cervix, May, 649.

BOYD, W. E. (ab.), Two radiographic teaching models, June, 746.

BRAASCH, WILLIAM F., with EMMETT, JOHN L., it. auth. BRAASCH, WILLIAM F., with PRIESTLEY, JAMES T., it.

BRAILSFORD, JAMES F. (ab.), Brodie's abscess and differential diagnosis, Feb., 249.

BRAULT, P., and TIZON, A. (ab.), Practical employment of radiographic diagnosis in obstetrics, April, 508.

BRECK, LOUIS W. (ab.), Orthopedic aspects of pain in lower back, Feb., 249.

BRETON, A., with PIERRET, jt. auth.

BRILLOUET and VIEL, A. (ab.), Progress of case of lymphocytoma, March, 389.

Idem (ab.), Three cases of injury to cervical spine, including one of unrecognized fracture of odontoid, March, 372.

BROMER, RALPH S., and WOLMAN, IRVING J., Lipoid pneumonia in infants and children, Jan., 1.

BROMLEY, J. F. (ab.), Silicosis in pottery industry, April, 516.

516.

BROWN, PHILIP W., and MARCLEY, DAVID M. (ab.), Prognosis of diverticulitis and diverticulosis of colon, Feb.,

BROWN, ROBERT B., with ELIASON, ELDRIDGE L., jt.

BROWN, SAMUEL, with FINE, ARCHIE, jt. auth.
BROWN, SAMUEL, McCARTHY, J. E., and FINE, ARCHIE,
Pulmonary artery: roentgengraphic and roentgen kymographic study, Feb., 175.
BRUCK, SAMUEL, and FRUCHTER, JOSEPH M., Roentgen

BRUCK, SAMUEL, and FRUCHTER, JOSEPH M., Roentgen treatment of menstrual dysfunctions and sterility: analysis of 108 cases, April, 446.
 BRUN, De BEAUJEU, JAUBERT, and BÈGE (ab.), Rapid evolution of pulmonary cyst with formation of separated peripheral shadows, April, 512.
 BÜBEN, IVAN (ab.), Results obtained in radiation treatment of inoperable collum carcinoma, March, 370.
 BUIE, LOUIS A. (ab.), Melanosis coli, May, 642.

BURFORD, GEORGE E., with JONES, OSWALD R., jt. BURKE, EUGENE M., with MATTICK, WALTER L., jt.

RURMAN, MICHAEL S., with SCHMIER, ADOLPH A., jt.

cable, J. Verney (ab.), Late results of surgical treatment in perforated peptic ulcer, March, 381.

CACE, MANLIO (ab.), Primary tumors of duodenum and jejunum and lymphogranuloma of duodenum, April, 519.

CADE, A., and MILHAUD, M. (ab.), Cancer of transverse colon of masked type, March, 371.

CAFFIER, P. (ab.), Results and experiences in treatment of carcinoma of cervix, with special consideration of radium therapy, May, 649.

CAHAL, MAC F., General welfare of radiology, Jam., 98; Points of interest, Feb., 228; Who shall practise medicine? May, 611; Points of interest, June, 736.

CAMERON, A. T., WHITE, F. D., and MELTZER, SARA (ab.), Calcium carbonate deposits in human gall bladder, April, 505.

CANTACRILL, M., with WILLEMIN, F., jt. auth.

CANUYT, GUNSETT, and GREINER (ab.), New applications of planigraphy to physiology and pathology of larynx, May, 637.

CARLSON, HJALMAR E., with OCKERBLAD, NELSE F., jt. auth.

it. auth.

CARNOT, PAUL, and LAFITTE, ABEL (ab.), Hematemesis and diaphragmatic hernia of stomach, March, 386. CARRIE, C. (ab.), Therapy of x-ray leukopenia, April, 515. CARROLL, ROBERT L., with McCHESNEY, GEORGE J., jt.

CARTER, RAY A., with BAILEY, WILBUR, it. auth.
CARTERET, DILLENSEGER, and BERTRAND, P. (ab.),
Voluminous osteogenic sarcoma of left coxofemoral region,

Voluminous osteogenic sarcoma of left coxofemoral region, May, 643.

CARTY, JOHN RUSSELL, and RAY, BRONSON S., Some experiences, experimental and clinical, with direct irradiation of neurological tumors during operation with low voltage radiation, March, 325.

CASTAY (ab.), Diffuse cystic enlargement of mandible in Senegalese, April, 502.

Idem (ab.), Puffy and cystic appearance of lower jaw of Senegalese, Feb., 249.

CATHE, I. A. B., Some histological tumor variants and their influence upon radiosensitivity, April, 425.

CAVAROZZI, NICOLA (ab.), Relative insufficiency of pulmonary in fibrothorax, Jan., 119.

CHARLTON, MAX R. (ab.), Fracture of neck of scapula, Feb., 258.

CHARR, ROBERT, and COHEN, ARCHIBALD C. (ab.), Tuberculosis of intestines in tuberculous anthracosilicosis, 126

Jan., 126.
CHENE, P., and RAMADOUT, M. (ab.), Volvulus of stomach,
Jan., 125.
CHENEY, GARNETT, and GARLAND, L. HENRY (ab.),
Pulmonary pneumocyst: report of enormous solitary cyst
in healthy adult female, March, 378.
CHOFFAT with ROEDERER, C., jt. auth.
CHRISTOPHER, FREDERICK (ab.), Intestinal obstruction,
Jan. 112.

Jan., 117. CHROM, SV. A. (ab.), Studies on irradiation of the reticulo-endothelial tissue with small doses of roentgen rays, April,

501. CLARKSON, WRIGHT, and BARKER, ALLEN (ab.), Lumbosacral anomalies as cause of low backache, June, 748.
CLEMENT, GAGE (ab.), Roentgen treatment of inflammatory
diseases, May, 632.
CLERF, LOUIS H., and PUTNEY, F. JOHNSON (ab.), Tracheal stenosis from roentgen therapy, April, 514.
COHEN, ARCHIBALD C., with CHARK, ROBERT, jt. auth.
COHEN, IXVING, with SUGIURA, KANEMATSU, jt. auth.
COHEN, SAMUEL (ab.), Resolving lobar pneumonia in adults
simulating tuberculosis in roentgenogram, March, 382.
COLE, F. N. (ab.), Delayed resolution in bronchopneumonia,
March, 382.

COLEY, B. N. (ab.), Delayed resolution in broncapparamona, March, 382.

COLEY, BRADLEY L., and HIGINBOTHAM, NORMAN L. (ab.), Giant-cell tumor of bone, March, 367.

COLLEDGE, LIONEL (ab.), Treatment of carcinoma in pharynx and results, March, 370.

COLLINS, GEORGE B., and REILING, VICTOR G. (ab.), Cerenkov radiation, May, 637.

COLLINS, J. J., Occurrence of two or more primary malignant lesions, April, 462.

CONTE, E., with de MICHELIS, U., jt. auth.

COOK, EVELYN VANDERWILT, Influence of low temperature on recovery from roontgen rays, March, 289.

CORREIA NETO, ALIPIO, and FINOCCHIARO, JOSÉ (ab.), Typhoid empyema: report of case operated upon and cured, Jan., 119.

COSSIO, P., and BERCONSKY, I. (ab.), Primary sarcoma in the peri-myocardium, May, 631.

peri-myocardium, May, 631.
COULOUMA, P., with PIERRET, jt. auth.
CRANE, NORMAN F., with STEWART, HAROLD J., jt.

auth.
CROHN, BURRILL B., and BERG, ALBERT A. (ab.), Rightsided (regional) colitis, Jan., 117.
CROIZAT, P., with FROMENT, J., it. auth.
CROWTHER, J. A. (ab.), Biologic effect of roentgen rays, Feb.,

CULP, ORMOND S. (ab.), Metastases from occult carcinoma of prostate, April, 513.

DAELS, F., FAJERMAN, H., and VAN HOVE, VAN de PUTTE (ab.), How is soluble radium, injected into animal, distributed in various body tissues? March, 383.

DANELIUS, GERHARD, Cross-sectional radiography of heart,

Feb., 190.
DANIEL, GASTON (ab.), Pretended responsibility of roentgen therapy for sarcomatous degeneration of irradiated fibroids, May, 650.

DANO and LAINÉ (ab.), Metrorrhagia cured by radiotherapy:

subsequent pregnancy, April, 507.

D'AUNOY, RIGNEY, OGDEN, MICHAEL ALEXANDER, and HALPERT, BÉLA (ab.), Primary carcinoma of biliary system: clinico-pathological analysis of 40 cases. March, 369.

DAVIS, KENNETH S., with McCHESNEY, GEORGE J., jt.

auth.

DECHAMBRE, E., with DECHAMBRE, S., jt. auth.

DECHAMBRE, S., DECHAMBRE, E., and NEBOUT, J. (ab.),

Giant-cell tumor ("osteoclastoma") of femur treated with

x-rays, May, 648.

DEITRICK, JOHN E., with STEWART, HAROLD J., jt. auth.

DELABORDE (ab.), Stratigraphy of lungs and bones, June,

746.

DELANO, PERCY J., with HUBENY, MAXIMILIAN J., jt.

DELARIO, A. J. (ab.), X-ray diagnosis of gastric cancer, June,

752. Tét. M. (ab.), Osseous dystrophy of von Recklinghausen type, March, 367. den HOED, D. (ab.), Results of irradiation with soft roentgen rays at very small focus-skin distance (contact therapy).

rays at very small focus-skin distance (contact therapy), May, 644.
den HOED, D., LEVIE, B., and STRAUB, M. (ab.), Serious injury of blood in consequence of teleroentgen therapy of whole body, March, 386.
DESJARDINS, ARTHUR U., Antoine Béclère (1856-1939),

sage and method of roentgen therapy for inflammatory

May, 622.

Idem, Dosage and method of roentgen therapy for inflammatory conditions. June, 699.

DEVOS, L., with PIERRET, jt. auth.

De WAARD, R. H. (ab.), Fundamental property of planigraphic image formation. May, 637.

DICKSON, ERNEST C., and GIFFORD, MYRNIE A. (ab.), Coccidioides infection (coccidioidenycosis). II. Primary type of infection, April, 509.

DIETEL, F. G. (ab.), Present method of radiation therapy of uterine carcinoma in first gynecological clinic of University of Munich, May, 650.

DILLENSEGER, with BINET, E., jt. auth.

DILLENSEGER, with EADOUX-LEBARD, R., jt. auth.

DIAIN. ALBERT, with LEDOUX-LEBARD, R., jt. auth.

DONALDSON, S. W., Economic status of radiologist under socialized medicine: report on Germany. March, 351; Economic status of radiologist under socialized medicine: report on England, April, 488.

Idem (ab.), Study of relations between birth weight and size of thymus shadow in 2,000 new-born, Jan., 128.

DOWDY, ANDREW H., HEATLY, CLYDE A., and PIERCE, WILLIAM W., Evaluation of roentgen irradiation as adjunct in treatment of acute offits media: preliminary report, June, 661.

DOWELL, D. ARNOLD, with KELLY, JAMES F., jt. auth.

DREVON and MOURGUES (ab.), Three-year cure of case of melanosarcoma, March, 389.

DRUMMOND, D. H., and SCHMELA, W. W., Computation of dimensions in planigraphy with mathematical instruments, May, 550.

dimensions in planigraphy with mathematical instruments, May, 550.

DUCLOS, H. (ab.), Vertebral osteo-arthritis due to Brucella melitensis, April, 517.

DUFFY, JAMES J. (ab.), Cervical lymph nodes in intra-oral carcinoma: surgery or irradiation? March, 370.

DUMONT, G. (ab.), Diverticulum of duodeno-jejunal angle, April, 508.

EDBIKEN, JOSEPH, and ROSE, EDWARD (ab.), Relief of anginoid pain following removal of intrathoracic non-toxic nodular goiter, Feb., 259.
EDLING, NILS P. G. (ab.), So-called pulmonary chondroma,

March, 388. EISEN, DAVID (ab.), Esophageal hiatus hernia, with special

EISEN, DAVID (ab.), Esophageal hiatus hernia, with special reference to x-ray diagnosis. Feb. 257.

ELDRIDGE, W. W., with UNGERMAN, A. H., jt. auth.

ELIASON, ELDRIDGE L., BROWN, ROBERT B., and ANDER-SON, DAVID P. (ab.). Pyogenic liver abscess, April, 511.

ELLINGER, FRIEDRICH, Influence of ultra-violet rays on body weight. Esb. 187.

weight, Feb., 157. **BLOY, L.** (ab.), Indications and results of treatment of oto-

ELOY, L. (ab.), Indications and results of treatment of otor-thino-laryngological cancer by radiations, Feb. 253.
EMMETT, JOHN L., and BRAASCH, WILLIAM F. (ab.), Has excretory urography replaced retrograde pyelography in diagnosis of renal tuberculosis? Jan., 128.
ENGEL, GILSON C., and MAY, HANS (ab.), Two-plane direction and range finder for nailing fractures of neck of femur. Feb., 238.
ERICHSEN, F. (ab.), Results in treatment of carcinoma of cervix at Women's Clinic of University of Göttingen from 1926 to 1937, April, 520.

ESSER, C. H., and OTT, P. (ab.), Problem of "high current" x-ray apparatus, Feb., 248. ESSER, M. (ab.), Schüller-Christian's disease, May, 643. EWING, AGNEW R., with FRIEDEWALD, WILLIAM F., jt.

auth.

FACCINI, BRUNO (ab.), Tuberculous ulcerations of lung and pulmonary cavities, May, 634.

FAIRCLOUGH, W. A., with NEIL, J. HARDIE, jt. auth. FAJERMAN, H., with DAELS, F., jt. auth. FALDELLA, G. (ab.), Direct roentgen therapy through small fields of pulmonary tuberculosis, April, 518.

FARINAS, PEDRO L., Value of x-ray examination of sella turcica in sagittal positions, April, 411.

FARRELL, MALCOLM J. (ab.), Use of prostigmin as preparation for abdominal roentgenography. Jan., 123.

FARROW, J. H., with QUIMBY, EDITH H., jt. auth.

FAUST, J. J. (ab.), Treatment of gas gangrene infections, April, 506.

506.

FAWCITT, RICHARD (ab.), Occupational diseases of lungs in agricultural workers, April, 512.

FEHR, W. (ab.), Modern high milliamperage and high voltage apparatus for roentgen deep therapy, June, 746.

FEID, LOUIS, Jr. (ab.), Use of radium in treatment of uterine

fibroids, Jan., 122.
FEISTMANN-LUTTERBECK, E. (ab.), Changes in vertebral column following tetanus. May, 645.
FELDMAN, MAURICE, Cholecystography: single-dose rersus the double-dose methods of administering dye, Feb., 155.
Idem, Roentgenologic consideration of gastritis, June, 726.
FERREIRA, ANTONIO E. MENDES, with RIVERS, ANDREW

FERREIRA, ANTUNIO E. MENDED, SINCE STATES, STA

FINOCHIETTO, E., with UDAONDO, C. BONORINO, it.

FISCHEL, E. (ab.), Some experimental studies of action of short waves on process of healing of fractures, Feb., 258. FITZPATRICE, P. F. (ab.), Artificial pneumothorax in children,

April, 513.

April, 518.

FLEMING, BRUCE L. (ab.), Cystic hygroma of neck, Jan., 129.

FORSSMAN, GÖSTA, with WESTERMARK, NILS, jt. auth.

FRAIN, IRA (ab.), Papilloma of tonsil, with report of three cases, March, 387.

FRANKLIN, K. J., with BARCLAY, A. E., jt. auth.

FRAY, WALTER W., with KALTREIDER, NOLAN L., jt. auth.

FRAY, WALTER W., and POMMERENKE, WESLEY T.,

Roentgenographic pelvimetry and fetalometry: elimination of errors due to movements between x-ray exposures, March, 261.

261.
FREY, W. (ab.). Diagnosis of cardiac enlargement, April, 509.
FRICKE, ROBERT E., with BOWING, HARRY H., it. auth.
FRIEDEWALD, WILLIAM F., and EWING, AGNEW R. (ab.),
Industry calefied acric stenosis, Feb., 259.

Isolated calcified aortic stenosis, Feb., 259.
FROMENT, J., CROIZAT, P., and MASSON, R. (ab.), Radiculo-medullary compression in course of malignant granulo-matosis, Jan., 125.

matosis, Jan., 125.

FROSTBERG, NILS (ab.), Characteristic duodenal deformity in cases of different kinds of peri-vaterial enlargement of pancreas, March, 381.

FRUCHTER, JOSEPH M., with BRUCK, SAMUEL, jt. auth. FULLER, CHARLES K. (ab.), Unusual head injury, March, 252.

FULTON, J. STRUTHERS, with PATERSON, R. S., jt. auth.

GAILLARD, C. (ab.), Practical pulmonary stratigraphy, June,

GAITHER, ERNEST H., and BORLAND, JAMES L. (ab.),

Gastrack, Ernessi H., and Borkland, James L. (ab.), Gastroscopic studies, Jan., 126. GALIFI, LIBORIO (ab.), Unusual case of invagination of pylorus into duodenum, Feb., 255. GARCIA-CALDERON, J., with LEDOUX-LEBARD, R., jt.

GARLAND, L. HENRY, Raymond Griswold Taylor: An appre-

ciation, Jan., 108. n (ab.), Roentgen treatment of certain hemorrhagic disorders, March, 385.

orders, March, 380.
Idem, X.-ray rentals in hospitals: analysis of current rental costs in hospitals and medical buildings, Jan., 46.
GARLAND, L. HENRY, with CHENEY, GARNETT, it. auth.
GARRAHAN, C. JUSTUS, with PENDERGRASS, EUGENE P.,

jt. auth.

GASSMANN, W. (ab.), Superficial radiotherapy: contact radiotherapy (Chaoul), May, 639.

GAUCHER with ROEDERER, jt. auth.

GAUSS, C. J. (ab.), Development of gynecological radium therapy, especially in treatment of non-malignant disease, May, 642.

GEISSBERGER, HANS, Table for use in radiography of infants' chests. Lan. 96.

chests, Jan., 96. GÉRARD, L., with LÉON-KINDBERG, it. auth.

GERRIE, J. W. (ab.), One hundred broken noses, March, 380.
GERSHON-COHEN, J., and STRICKLER, ALBERT (ab.)
Roentgenologic examination of normal breast: evaluation
in demonstrating early neoplastic changes, March, 388.
GESCHICKTER, CHARLES F., and MASERITZ, I. H. (ab.),
Primary hemangioma involving bones of extremities, Feb.,
250.

250. GHORMLEY, RALPH K., SUTHERLAND, CHARLES G., and POLLOCK, GEORGE A. (ab.), Pathologic fractures, GIFFORD, MYRNIE A., with DICKSON, ERNEST C., it.

auth.
GIBERT, RENÉ (ab.), Treatment of malignant granulomas by radiotherapy, May, 648.
GILLESPIE, JAMES B., with SIEGLING, JOHN A., jt. auth. GILMOUR, W., with NEIL, J. HARDIE, jt. auth. GIRARD, M., with SAVY, P., jt. auth. GLEIZE-RAMBAL, L. (ab.), Causes and results of colospasms, Eab. 928.

GLEIZE-RAMBAL, L. (a0.), Causes and Technical Feb., 255.
GOLDEN, ROSS, Responsibility of radiologist in training of hospital intern in fluoroscopy (ed.), Feb., 235.
GOLDENBERG, RAPHAEL R. (ab.), Traumatic dislocation of hip followed by Perthes' disease, March, 375.
GOLOB, MEYER, Cardiospasm: report of case, April, 481.
GRAF, J., with GRAF, L., jt. auth.
GRAF, L., and GRAF, L. (ab.), Problem of potential in deep

therapy, Jan., 122.

GRAVES, W. N. (ab.), Solitary diverticulitis of cecum, Feb.

GRAY, LAMAN A., with WHARTON, LAWRENCE R., jt.

auth.

GREENBERGER, EDWARD D. (ab.), Carcinoma of cervix and breast: prognosis and preferable therapy, March, 370.

GREINER with CANUYT, it. auth.

GRIGSBY, GUY P., and KAPLAN, SIDNEY E. (ab.), Intussusception in infancy and childhood, Jan., 117.

GRLLI, ADAMO (ab.), Radiological aspect of early and advanced gas gangrene, April, 506.

GROOVER, THOMAS A., Partnerships of radiologists (ed.), Mav. 617.

GROSSMANN, G. (ab.), Spectral distribution of heterogeneous

GROSSMANN, G. (ab.), Spectral distribution of heterogeneous beam of roentgen rays, Jan., 122.
 GROUT, J. L. A. (ab.), Silicosis in grinders, April, 516.
 GUARINI, CARLO (ab.), Roentgen therapy in dermatology, May, 644.
 GUIBAL with LAMARQUE, jt. auth.
 GUIDOTTI, CARLO (ab.), Case of echinococcus of spine difficult to interpret roentgenologically, May, 645.
 GUILBERT, TORTAT, FRAIN, and Le GUERN (ab.), Involution of uterine cavity after irradiation of fibromas, May, 649.

GUILD, HARRIET G., with WHARTON, LAWRENCE R., it.

GUNSETT, A. (ab.), Radiobiology and radiation therapy, April,

514. Tuith CANUYT, jt. auth. de GUNTET, with CANUYT, jt. auth. de GUNTEN, P. (ab.), Pneumatization of facial bones in Crouzon's disease, Apert's disease, and oxycephaly, March, 384. GWYNNE, F. J., with NEIL, J. HARDIE, jt. auth.

HADLEY, LEE A. (ab.), Pathologic conditions of spine: painful disturbances of intervertebral foramina, Jan., 124.

HADLEY, W. SAMPSON (ab.), Chronic mastitis and breast cancer: family history of five sisters, Feb., 250.

HAGGART, GILBERT E., with BARTELS, ELMER C., jt.

auth.

HALDIN-DAVIS, H. (ab.), Treatment of plantar warts: clinical memorandum, April, 520.

HALL, M. R. (ab.), Roentgenological diagnosis of volvulus of sigmoid megacolon, with report of two cases, Jan., 117.

HALPERT, BELA, with D'AUNOY, RIGNEY, jt. auth. HARE, HIGH F, with HURXTHAL, L. M., jt. auth. HARPER, R. A. KEMP (ab.), Silicosis in pottery workers, April, 518.

HARRINGTON, LEO A., with RENDICH, RICHARD A., jt.

auth.

HARRIS, T. T., with HICKEN, N. FREDERICK, jt. auth.

HARRIS, WILLIAM, with BERCK, MAURICE, jt. auth.

HARRIS, WILLIAM, with BERCK, MAURICE, jt. auth.

HARRISON, EDWARD K., and REEVES, ROBERT J., Roentgen treatment of leukemia, with report of pregnancy in

case of lymphatic leukemia, March, 284.

HARVEY, E. (ab.). Urinary prolans in cancer cases, Feb., 252.

HARVIER, P., MALLARME, J., and LEDOUX-LEBARD, GUY

(ab.). Generalized form of Paget's disease with diffuse
involvement of small bones of extremities, Feb., 250.

HAYDEN, CHARLES THOMAS (ab.), Roentgen-ray pelvim
etry, Jan., 120.

etry, Jan. 120.

HEATLY, CLYDE A., with DOWDY, ANDREW H., jt. auth.

HEB, P. (ab.), Roentgen therapy of chronic tonsillitis, March,

HELLPAP, W., with LOHR, R., jt. auth. HELLWIG, C. A., and WARFIELD, C. H. (ab.), Bone tumors,

March, 308. HENDERSON, W. R. (ab.), Anterior basal meningiomas, Jan., HENRARD, E. (ab.), Undiagnosed luxations of shoulder, April,

516.
HENSCHKE, U. (ab.), Dependence of ionization current on volume of small ionization chambers, Feb., 247.
HENSHAW, PAUL S., Radiosensitivity and recurrent growth in Obelia, April, 466.

HEPLER, ALEXANDER B. (ab.), Non-obstructive dilatations of upper urinary tract in children, April, 507.

HERB, R. G., with PARKINSON, D. B., jt. auth.

HERSKOWITS, EUGEN (ab.), Two cases of cystic dilatation of lower thirds of left ureters, April, 507.

HESS, ELMER (ab.), Sarcoma of prostate and adjacent retrovesical structures, April, 513.

HETHERINGTON, H. W. (ab.), Diagnosis and management of latent, suspected, and early clinical tuberculosis, April, 518.

HICKEN, N. FREDERICK, with BEST, R. RUSSELL, jt.

HICKEN, N. FREDERICK, BEST, R. RUSSELL, HUNT, HOWARD B., and HARRIS, T. T. (ab.), Roentgen visualiza-tion and diagnosis of breast lesions by means of contrast media, March, 368. HIBBERT, P. E., with ALLEN, LEWIS G., jt. auth. HIGINBOTHAM, NORMAN L., with COLEY, BRADLEY L.,

jt. auth. HILL, FREDERICK T. (ab.), Mixed tumors of hard palate.

March, 389.

HIPPS, HERBERT E. (ab.), New surgical procedure in acute infectious arthritis, Feb., 248.

HIRSCHI, H., and BODMER, H. (ab.), Therapy with radio-

HINSCHI, H., and BODMER, H. (ab.), Therapy with radio-active emanation, April, 515.

HOCHBERG, LEW A., Roentgenographic images in primary carcinoma of lung, June, 713.

HOCHBERG, LEW A., with NATHANSON, LOUIS, jt. auth.

HOCKER, ALFRED F., with BLADY, JOHN V., jt. auth.

HODES, PHILIP J., with PENDERGRASS, EUGENE P., jt.

auth.

auth.

HODEB, K. (ab.), Report of acute roentgen injury, April, 514.

HODES, FRED M., and SNEAD, L. O., Roentgen therapy of carefully selected sinus infections, June, 669.

HOFF, F., with NEEFF, T. C., jt. auth.

HOLFELDER, H., and BERNER, F. (ab.), Standing and prospects of miniature photographs from roentgen screen, June, 746.

HOLINGER, PAUL H. (ab.), Rôle of inflammatory bronchial

stenosis in etiology of bronchiectasis, June, 749.

HOLLAENDER, ALEXANDER, Present status of mitogenetic radiation, April, 404.

HOLLDACK, F. (ab.), Rare disturbances of osseous cartilaginous growth, March, 366.

growth, March, 366.

HOLMGREN, BENGT S. (ab.), Case of genuine invagination of

HOLMOREN, BENGY S. (ab.), Case of solutions of the colon, Feb., 254.

Idem (ab.), Variations in x-ray appearance of normal first metatarso-phalangeal joint due to changes in direction of central ray, April, 505.

HOLTHUSEN, H. (ab.), Biologic effect of roentgen rays, April,

514.
HORSLEY, J. S. (ab.), Symptoms, diagnosis, and treatment of cancer of stomach, March, 385.
HORTON, BAYARD T., with MILLS, JOHN H., jt. auth.
HOWARD, HERBERT H., and SUBY, HOWARD I. (ab.),
Perirenal fibrosarcoma, March, 377.

Perirenal fibrosarcoma, March, 377.

HOWES, WILLIAM E., Planigraphy—application to thoracic diagnosis, May, 556.

HOWES, WILLIAM E., and SCHENCK, SAMUEL GEORGE, Bronchogenic carcinoma: study of eight autopsied cases, Lang

Bronchogenic carcinoma; study of eight autopsica case, Jan. 8.

RABOVSZKY, A. (ab.), Early results of near distance radiation in carcinoma of skin and lip, Feb., 254.

HUBENY, MAXIMILIAN J., and DELANO, PERCY J., Paraplegia from erosion of vertebral column by large thoracic aneutysm, Feb., 171.

Idem, Plea for more frequent use of lateral roentgenogram in diagnosis of pregnancy, May, 546.

HUDSON, J. CRAMER, Physical measurements on roentgen radiation from tube actuated by Van de Graaf generator, May, 530.

HUGUENIN, ANDRÉ, with MARILL, F.-G., jt. auth.

HUGUENIN, ANDRÉ, with RAYNAUD, R., jt. auth.

HUIZINGA, EELCO, with BEHR, E., it. auth.

HUNT, HOWARD B., with HICKEN, N., FREDERICK, jt. auth.

auth.
HUNT, HOWARD B., and POPMA, ALFRED M., "Excretory urography by intramuscular injection of diodrast," Authors' note on, Jan., 113.
HURTHAL, L. M., and HARE, HUGH F., Bone changes in primary hypogonadism, May, 521.

INOUYE, K. (ab.), Biological effects of alpha rays, with special consideration of problems of radium therapy using extremely low doses, May, 641.
 INTER-SOCIETY COMMITTEE FOR RADIOLOGY, General welfare of radiology, M. F. Cahal, Jan., 98; Points of interest, M. F. Cahal, Feb., 228; Economic status of radiologist under socialized medicine: report on Germany, S. W. Donaldson, March, 351; Economic status of radiologist under socialized medicine: report on England, S. W. Donaldson, April, 486; Who shall practise medicine? M. F. Cahal, May, 611; Points of interest, M. F. Cahal, June, 736.

JACOX, HAROLD W. (ab.), Treatment of skin malignancy by irradiation, March, 369.

Idem, Recovery following human ovarian irradiation, May, 538.

JACOX, HAROLD W., MAJOR, GLENN, and BAKER, MARGARET R., Multiple heteromorphologic malignant tumors of uterus, Jan., 51.

JAFFE, RICHARD H., with PORTIS, SIDNEY A., jt. auth.

JEFFERSON, GEOFFREY (ab.), Saccular aneurysms of internal carotid artery in cavernous sinus, April, 508.

JENKINS, I. WARNER, Treatment of hyperthyroidism, with consideration of other of ductless glands as trigger mechanism: based upon observation of 360 cases, March, 340.

JENKINSON, EDWARD L., Henry Schmitz, June, 743.

JENKINSON, EDWARD L., Henry Schmitz, June, 743.

JESOVER with ROEDERER, it. auth.

JESSEL, GEORGE (ab.), Skiagraphy of chest, Jan., 119.

JOCHIM, K., with KATZ, L. N., jt. auth.

JOHN, F. (ab.), Roentgen late injuries, April, 515.

JOHNSON, G. H. (ab.), Factors relating to treatment of cervix uteri, March, 390.

JOHNSON, G. H. (ab.), Factors relating to treatment of cervix uteri, March, 390.

JOHNSON, VINCENT C., Value of roentgen examination of paranasal sinuses, March, 303.

JONES, E. MENDELSSON (ab.), Diaphragmatic hernia, March, 373.

JONES, OSWALD R., and BURFORD, GEORGE E. (ab.), Massive atelectasis following cyclopropane anesthesia: report of cases and theory of cause and prevention, March,

JONES, W. A. (ab.), Points of mutual interest to general practi-

tioner and radiologist, Jan. 122.

JOSTES, FREDERICK A., and ROCHE, MAURICE B. (ab.),
Syphilis of bones and joints, May, 645.

JULIAN, ORMAND C., Large pedunculated lipoma of colon nine

years after resection of carcinoma of colon, April, 479. JUTRAS, ALBERT, with ROY, J. N., jt. auth.

KAGAMI, Y. (ab.), Experimental study on effect of change of environments of animal cells on their radiosensitivity,

KAGAMI, Y. (ab.), Experimental study on effect of change or environments of animal cells on their radiosensitivity, April, 501.

KALTREIDER, NOLAN L., and FRAY, WALTER W. (ab.), Pathological physiology of pulmonary cysts and emphysematous buller, May, 633.

KAMEN, MARTIN D., with WILSON, ROBERT R., jt. auth. KAPLAN, H. A., with KATZ, L. N., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. KAPLAN, SIDNEY E., with GRIGSBY, GUY P., jt. auth. SEILHACK, HANS (ab.), Coentgenologic demonstration of digitalis on isolated heart, April, 508.

KEILHACK, HANS (ab.), Coentgenologic demonstration of papilloma of kidney pelvis. March, 377.

KELLY, JAMES F., and DOWELL, D. ARNOLD, Roentgen treatment of acute peritonitis and other infections with mobile x-ray apparatus, June, 675.

KELTON, WALTER (ab.), Plantar wart, April, 520.

KESMODEL, K. F., with MEADOWS, J. A., jt. auth. KHOO, F. Y. (ab.), Calcification in angiomas, Jan., 128.

KILLICK, ESTHER M. (ab.), Tests of respiratory efficiency and their correlation with radiological appearances in lungs April, 511.

KING, DONALD S. (ab.), Primary cancer of lung, April, 511.

KING, DONALD S. (ab.), Primary cancer of lung, April, 511.

KING, MAX O. (ab.), Association of silicosis and carcinoma of lung, May, 634.

Idem (ab.), Primary carcinoma of lung, Feb., 252.

KNAPP, M. E., Treatment of crysipelas with ultra-violet energy, Feb., 195.

KNOFLICEK, E. J. (ab.), Chorionepithelioma in male, March,

KNOFLICEK, E. J. (ab.), Chorionepithelioma in male, March,

388.
KNOLL, WILLIAM V., with BAILEY, WILBUR, jt. auth.
KÖRBLER, J. (ab.), Radium therapy of carcinoma of skin and lip. March, 383.
KORNBLUM, KARL, and RITTER, JOSEPH A., Retroperi-

toneal cyst with agenesia of kidney, April, 416.
KOUCKY, RUDOLPH, with RIGLER, LEO G., jt. auth.
KUBAT, ANTON (ab.), Extensive calcifications in breast, March,

KUHNS, JOHN G. (ab.), Chronic arthritis of shoulder, Feb., KUZMA, WACLAW (ab.), Teratomas and dermoid cysts, May, 646.

LABORDE, S. (ab.), Cancer of cervix: therapeutic and biological thoughts, April, 520.
LACKEY, ROBERT W., with METZ, M. HILL, it. auth.
LADD, WILLIAM E. (ab.), Embryoma of kidney (Wilms'

LACRY, ROBERT W., with METZ, M. HILL, it. auth.
LADD, WILLIAM E. (ab.), Embryoma of kidney (Wilms'
tumor), April, 510.
LAFITTE, ABEL, with CARNOT, PAUL, jt. auth.
LAINE with DANO, jt, auth.
LAINE with DANO, jt, auth.
LAMARQUE and BÉTOULIÈRES (ab.), Acute arthritis developing in hip joint presenting lesions of post-traumatic
coxarthritis, March, 374.
LAMARQUE, GUIBAL, and BÉTOULIÈRES (ab.). Acute
iodism following intravenous pyelography. April, 504.
LAMARQUE, with TERRACOL, J., jt. auth.
LAMARQUE, with TERRACOL, J., jt. auth.
LAMOUREAUX with POIRIER, it. auth.
LARSON, LAWRENCE M. (ab.), Fundamentals in surgical
treatment of colon disorders, Feb., 234.
LEAVELL, BYRD S. (ab.), Chronic leukemia: study of incidence, and factors influencing duration of life, Jan., 118.
LECLERC, GEORGES-CLAUDE (ab.), Radiosensitivity of
Ewing's tumor, May, 648.

LEDOUX-LEBARD, GUY, with HARVIER, P., jt. auth.
LEDOUX-LEBARD, R. (ab.). Roentgen therapy of Paget's
disease of bone, March, 367.
LEDOUX-LEBARD, R., GARCIA-CALDERON, J., and DJIAN,
ALBERT (ab.). Radiography of larynx, anterior view, and
technic, May, 632.
LEE, THOMAS B. (ab.). Treatment of myoma uteri, May, 650.

technic, May, 632.

LEE, THOMAS B. (ab.), Treatment of myoma uteri, May, 650.

Le GUERN with GUILBERT, it. auth.

LEICHTI, A. (ab.), Greinacher "spark" counter for measurement of very small quantities of roentgen and radium rays, Feb.,

248. LÉON-KINDBERG and GÉRARD, L. (ab.), Presentation of several pulmonary "biotomes" taken with apparatus of

LÉON-KINDBERG and GÉRARD, L. (ab.), Presentation of several pulmonary "biotomes" taken with apparatus of Bocage, Feb., 247.

LEPENNETIER, F. (ab.), Treatment of Chauffard-Still's disease, March, 385.

LEVENSON, CARL L., with BIERMAN, WILLIAM, jt. auth. LEVIR, B., with den HOED, D., jt. auth. LEVIRA, R. I. (ab.), Influence of hyperthyroidism and hypothyroidism on gastric evacuation, March, 386.

Idem (ab.), Influence of pituitrin on evacuation of stomach, Jan., 126.

LI, S. T. (ab.), Cold screening in low-power radiography, April, 501.

LIDZKI, A. (ab.), Dermoid cyst of bladder, June, 749. LIEBERMAN, HERMAN S. (ab.), Hodgkin's disease of bones,

March, 367.

LIECHTI, A., MINDER, W., and MÜLLER, J. H. (ab.), Radiobiological experiments with pupæ of *Drosophila*, April, 502.

LIGNAC, G. O. E. (ab.), Syndrome consisting of affections of kidney, stunted growth, rickets, and disturbed cystine metabolism, March, 376.

LINDNER, E., with KATZ, L. N., jt. auth.

LOCKWOOD, IRA H. (ab.), Primary carcinoma of bronchus, Inne, 752.

LOCKWOOD, IRA H., and BELL, CHARLES, E. (ab. tion therapy of primary hemangioma of vertebræ, May, 644. LOHR, R., and HELLPAP, W. (ab.), Roentgen image of joint space at knee, April, 511. LONG, LEONARD, Simple apparatus for visualization of sinus

tracts, June, 733.

LOSSEN, HEINZ (ab.), Chronic appendicitis and x-ray study,

LOUGHRIDGE, DONALD H., with TRUEBLOOD, HAROLD

LOUGHRIDGE, DONALD H., with TRUEBLOOD, HAROLD C., jt. auth.

LOVE, J. GRAFTON (ab.). Intractable low back and sciatic pain due to protruded intervertebral disks: diagnosis and treatment, June, 748.

LOVE, WILLIAM H., Efficiency curves in quantitative radiobiology, June, 708.

LOVE, WILLIAM H., Efficiency curves in quantitative radiobiology, June, 708.

de LUCA, G. (ab.). Compression of vertebra by hemangioma which was clinically cured by radiotherapy, May, 644.

de LUCA, V. (ab.), Regression of contralateral tuberculous lesions after monolateral therapeutic pneumothorax, May, 638.

LUTL, M. (ab.), Radiosensitivity and cell division, Feb., 249.

LUTZ, W., and SEVFRIED, H. (ab.), Danger of intravenous cholecystography, April, 306.

LYNCH, KENNETH M. (ab.), Pulmonary asbestosis. IV.—Asbestos body and similar objects in lung, March, 380.

McALISTER, L. S. (ab.), Roentgen therapy, Feb., 253.
McCARTHY, J. E., with BROWN, SAMUEL, it. auth.
McCHESNEY, GEORGE J., CARROLL, ROBERT L., and
DAVIS, KENNETH S. (ab.), Bone tumors, March, 368.
McCLELLAND, JAMES C., and MILLS, JESSE R. F. (ab.),
Renal tumors, March, 389.
McCURRICH, H. J. (ab.), Calcification of bursa of coracoclavicular ligament, April, 503.
McDONALD, STUART, Jr. (ab.), Observations on chorionepithelioma testis, with record of case, March, 388.
McFETRIDGE, ELIZABETH M., with ROMANO, SAMUEL A.,
it. auth.

McKEEVER, DUNCAN C. (ab.), Fractures of os calcis, April, McKIBBEN, J. L., with PARKINSON, D. B., it. auth.
MacVICAR, WARWICK, with PATERSON, RALSTON, jt.

MacVICAR, WARWICK, with PATERSON, RALSTON, jt. auth.

MACBETH, R. G., with BARCLAY, A. E., jt. auth.

MAESTRI, O. (ab.). Spontaneous cure of some forms of pulmonary tuberculosis, April, 501.

MAGNUSSON, W. (ab.). Conditions responsible for radiographic visualization of "true joint fissure," Feb., 280.

MAIN, WALLACE, with NEIL, J. HARDIE, jt. auth.

MAILAND, D. G. (ab.). Radiological aspect of treatment of ureteric calculus, March, 368.

MAJOR, GLENN, with JACOX, HAROLD W., jt. auth.

MALLARME, J., with HARVIER, P., it. auth.

MANDEVILLE, FREDERICK B., Alov evra in treatment of radiation ulcers of mucous membranes, May, 598.

MARC, H., and SIRE (ab.). Gastric syphilis, pseudoneoplastic type: clinical and radiologic study, May, 645.

MARCHONI, R., with BERNASCONI, FR., it. auth.

MARCLEY, DAVID M., with BROWN, PHILIP W., jt. auth.

MARCLEY, DAVID M., with BROWN, PHILIP W., jt. auth.

MARINELLI, L. D., with QUIMBY, EDITH H., jt. auth.

MAROUIS with BELOT, jt. auth.

MARQUIS with BELOT, it. auth.

MARZOCCHI, GUALTIERO (ab.), Size, variability, and correlation of heart at puberty, Feb., 259.

MASERITZ, I. H., with GESCHICKTER, CHARLES F., it.

MASERITZ, I. H., with GESCHICKTER, CHARLES F., jt. auth.

MASSA, J. (ab.), New position for radiologic examination of shoulder joint in profile, April, 516.

MASSIOT, J. (ab.), Presentation of biotome of Bocage and of planigraph of Zieckes des Plantes, June, 747.

MASSIOT, J. (ab.), Presentation of biotome of Bocage and of planigraph of Zieckes des Plantes, June, 747.

MASSON, R., with FROMENT, J., it auth.

MATTICK, WALTER L., and BURKE, EUGENE M. (ab.), Primary bronchogenic carcinoma from pathologic and radiologic points of view, Feb., 252.

MATZ, PHILIP B. (ab.), Study of silicosis, March, 384.

MAXWELL, J. H. (ab.), Management of septic patient with otitis media, Jan., 120.

MAY, HANS, with ENGEL, GILSON C., jt. auth.

MAYER, A. (ab.), Thirty years' experience in treatment of carcinoma of uterus, March, 390.

MAYER, KAROL, X.-ray inquiry into genesis of current of venous blood and lymph, March, 275.

MEADOWS, J. A., and KESMODEL, K. F. (ab.), Roentgen diagnosis and treatment of benign giant-cell tumor of bone, March, 367.

MELLINGER, WILLIAM J. (ab.), Base of skull, with particular reference to fractures, March, 372.

MELTZER, SARA, with CAMERON, A. T., jt. auth.

MENCHER, WILLIAM H., with BEER, EDWIN, jt. auth.

N

N N N

NI N

N

N

Id N

0

0 0

0

P

MENCHER, WILLIAM H., with BEER, EDWIN, jt. auth.
MENDELSOHN, S. N., and SCHRIVER, L. H. (ab.), Lipiodol
in treatment of persistent fecal fistula after appendectomy,

in treatment of persistent fecal fistula after appendectomy, April, 501.

MENDLOWITZ, M., with KATZ, L. N., jt. auth.

MESSIROW, SIDNEY D., with REIS, RALPH A., jt. auth.

MESSIROW, SIDNEY D., with REIS, RALPH A., jt. auth.

du MESNIL de ROCHEMONT, R. (ab.), Determination of dose in "rotation" irradiation, March, 372.

Idem (ab.), Is it possible to use radium bomb for intravaginal treatment of carcinoma of uterus and would it be possible to improve considerably distribution of radiation? April, 515.

METZ, M. HILL (ab.), Gastric lesion produced by posterior pituitary extract, Jan., 125.

METZ, M. HILL, and LACKEY, ROBERT W. (ab.), Peptic ulcer treated by posterior pituitary extract, Jan., 120.

MEYER, WILLIAM H., Co-relation of physical and clinical data in radiation therapy, Jan., 23.

MEYERDING, HENRY W. (ab.), Results of treatment of osteogenic sarcoma, March, 388.

MEYER-WILDISEN, ROBERT (ab.), Technic of air injection of joints, Feb., 260.

MEYER WILDISEN, ROBERT (ab.), Technic of air injection of joints, Feb., 280.

MIALARET, J., with ROUX, JEAN-CHARLES, jt. auth. de MICHELIS, U., and CONTE, E. (ab.), Effect of unilateral pneumothorax on pre-existing tuberculous lesions in opposite lung (study of 200 cases), April, 513.

MIDDELDORPF, K., in collaboration with SAUERBRUCH, F. von MIKULICZ-RADECKI, F. (ab.), Treatment of carcinoma of cervix in Women's Clinic of University of Königsberg from 1910 to 1937, March, 390.

MILHAUD, M., with CADE, A., jt. auth.

MILLER, EARL R., Carcinoma of thymus, with marked pulmonary osteo-arthropathy, June, 651.

MILLER, RUSSEL F., with WIDMANN, BERNARD P., jt. auth.

auth.

MILLS, EDWARD S. (ab.), Thalassanemia, May, 646.

MILLS, JESSE R. F., with McCLELLAND, JAMES C., jt.

MILLS, JOHN H., and HORTON, BAYARD T. (ab.), Clinical

aspects of aneurysm, June, 746.

MINDER, W. (ab.), Significance of primary and secondary beta rays in radium therapy, March, 383.

MINDER, W., with LIECHTI, A., it auth.

MITRA, SUBODH (ab.), Radiation therapy in gynecology, March, 384.

March, 384. Moers, 184. Moers, 184. March, 384. Moers, 184. Mooney, 184. Moo

MOONES, VOIGS, Convenent lantern-since examption taken April, 476.

MOORE, SHERWOOD, with SCOTT, WENDELL G., jt. auth. MORELI, ALBERTO C. (ab.), Systolic expansion of heart's ventricles, April, 508.

MOREY, JOHN B., and SOSMAN, MERRILL C., Spontaneous mediastinal emphysema, with report of case associated with spontaneous pneumothorax, Jan., 19.

MORO, J., and MONMIGNAUT (ab.), Case of hemorrhagic metritis cured by roentgen irradiation of hypophysis, April, 507.

MORR, H. (ab.), Roentgen image of encapsulated left diaphragmatic pleurisy, March, 379.

MOSTO, D. with UDAONDO, C. BONORINO, jt. auth.

MOURGUES with DREVON, it. auth.

MOURGUES with DREVON, it. auth.

MOLLER, HEINRICH (ab.), Limitations of internal medical treatment of gastric and duodenal ulcers, March, 381.

MULLER, R. (ab.), Results of roentgen and radium therapy in

MÜLLER, J. H., with LIECHTI, A., jt. auth.
MÜLLER, R. (ab.), Results of roentgen and radium therapy in carcinoma of larynx and hypopharynx, April, 503.
MUMFORD, E. B. (ab.), Roentgen therapy in acute osteoporo-

MUMFORD, E. B. (ab.), Roentgen therapy in acute osceptarisis, March, 367.

MUSCHAT, MAURICE (ab.), Diagnostic problems in surgical kidney disease, April, 510.

MUTSCHELLER, A., Relation between radiation quality factors and depth, Jan., 87.

MYERS, RALPH E. (ab.), Radiation therapy in primary neoplasms of lung, March, 379.

Idem (ab.), Treatment of carcinoma of cervix uteri, March, 369.

NAHAN with BELOT, it. auth.
NATHANSON, LOUIS, Shadow of cardiac end of stomach
simulating soft tissue tumefaction in supine position,

April, 473.
NATHANSON, LOUIS, HOCHBERG, LEW A., and PERLMAN,

MATHINSON, LOUIS, HOCHBERG, LEW A., and PERLMAN, ROBERT (ab.). Superior pulmonary sulcus tumor simulating subacromial bursitis, March, 388.

MATID, H. H. (ab.). Scope of radiotherapy, March, 384.

NEBOUT, J., with DECHAMBRE, S., jt. auth.

NEEFF, T. C. (ab.). Development of treatment methods for uterine carcinoma at Women's Clinic of University of Warzburg, May, 649.

NEEFF, T. C., and HOFF, F. (ab.), Avoidance of injurious effects on bladder in radiation therapy of carcinoma of uterus, June, 749.

NEIL, J. HARDIE, GILMOUR, W., GWYNNE, F. J., MAIN, WALLACE, and FAIRCLOUGH, W. A. (ab.), Anatomy of bronchial tree and clinical application, June, 750.

NEMOURS-AUGUSTE (ab.), Error of technic in administration of tetraiodide with intolerance and prolonged visibility of gall bladder. April, 505.

tion of tetranounde with intoferance and protonged visionity of gall bladder, April, 505.

NEU, L., and NEU, V. (ab.), Cyclic character of effect of roentgen rays, April, 514.

NEU, V., with NEU, L., jt. auth.

rays, April, 514. NEU, V., with NEU, L., jt. auth. NEUHOFF, HAROLD, and TOUROFF, ARTHUR S. W. (ab.), Acute aerobic (non-putrid) abscess of lung, April, 512. NEWCOMER, ELIZABETH, Treatment of carcinoma of breast: technic, complications, and results, Feb., 161. NEWCOMER, NATHAN B., Joint changes in hemophilia,

May, 573.

NEWELL, R. B., Language of engineers and radiologists: new x-ray terms proposed: rhegma, rhothion, kludon, plem, aith, March. 270.

NICHOLS, B. H. (ab.), Acute intestinal obstruction, Jan., 118.

NOGIER, T. (ab.), Calculus of bladder in case previously treated for cancer of cervix, March. 369.

Idem (ab.), Danger of introducing radio-active substances into body of mammals: experience with two mares, May, 642.

NORGAARD, FLEMMING (ab.), Peptic ulcer of esophagus, May. 636. May, 636.
NOTKIN, LOUIS J. (ab.), Early diagnosis of cancer of stomach,

OCKERBLAD, NELSE F., and CARLSON, HJALMAR E. (ab.), Malignant papillary cystadenoma in double kidney,

April, 510.

OERTEL, HORST (ab.), "Romantic" attributes of "lawlessness" and "malignancy" in cancer, June, 751.

OGDEN, MICHAEL ALEXANDER, with D'AUNOY, RIGNEY,

ORLEY, A

ORLEY, A. (ab.), X-ray pelvimetry, Jan., 120.
OSGOOD, HERMAN A., Treatment of acute and chronic in-flammatory conditions by fractional doses of x-ray, March,

OSTRUM, HERMAN W., with WIDMANN, BERNARD P.,

it. auth.
OTT, P., with ESSER, C. H., jt. auth.
OVERGAARD, KRISTIAN (ab.), Schmorl's cartilage islands,

PARKER, HERBERT M., Dosage measurements by simple computations, May, 591.

PARKINSON, D. B., HERB, R. G., BERNET, E. J., and McKIBBEN, J. L. (ab.), Electrostatic generator operating under high air pressure—operational experience and accessory apparatus, Feb., 248.

PARSONS, J. G. (ab.), Acute mastoiditis, May, 635.

PASCHETTA, VINCENT (ab.), Double ulcer of stomach: radiographs and specimen, May, 636.

PATEK, ARTHUR J. (ab.), Dissecting aneurysm of aorta: clinical recognition, April, 509.

PATERSON, RALSTON, Value of assessing and prescribing dosage in radiation therapy in simple terms, Feb., 221.

dosage in radiation therapy in simple terms. Feb. 221.

PATERSON, RALSTON, and MacVICAR, WARWICK (ab.),
Construction of superficial applicators for radium therapy,
April, 515.

April, 515.

PATERSON, R. S., FULTON, J. STRUTHERS, and SANKEY, R. J. (ab.), Discussion on planning and organization of radiological department in general hospital, May, 639-641.

PAUL, LESTER W., Radiography of parotid duct, May, 609.

PENDERGRASS, EUGENE P., HODES, PHILIP J., and GARRAHAN, C. JUSTUS, Roentgen therapy by method of Chaoul. Feb., 142.

GARRAHAN, C. JUSTUS, Roentgen therapy by metnou of Chaoul, Feb., 142.

PERLMAN, ROBERT, with NATHANSON, LOUIS, jt. auth. PETERSON, ANDREW P. (ab.), Retrograde catheterization in diagnosis and treatment of seminal vesiculitis, Jan., 124.

PETT, ROBERT G. (ab.), Irradiation of cutaneous manifestations of lymphoblastoma, April, 520.

PHILLIPS, JOHN ROBERTS, Esophagopleural fistula: report of case, Jan., 91.

PICARD, M. (ab.), Necessity of systematic use of barium enemas to disclose latent intestinal tuberculosis in cases with pulmonary tuberculosis, Jan., 128.

PICKHAN, A. (ab.), Intra-uterine radium therapy of hemorrhagic metropathies, May, 641.

PICKHARDT, OTTO C., and RAFSKY, HENRY A. (ab.), Problems presented by lesions of right quadrant, March, 376.

PIERCE, WILLIAM W., with DOWDY, ANDREW H., jt. auth.

PIERRET, COULOUMA P., BRETON, A., and DEVOS, L.
(ab.), New conception of anatomical structure of lungs:
pulmonary zones: clinical and radiological application.

pulmonary zones: clinical and radiological application, Jan., 119.

PILCHER, COBB (ab.), Bony intracranial tumors, May, 647. van der PLAATS, G. J. (ab.), Roentgen caustic, March, 371.

PLAUT, H. F. (ab.), Fracture of atlas in automobile accidents: value of x-ray views for diagnosis. March, 372.

POHL, RUDOLF (ab.), Acute and chronic atelectases of lungs and their sequences, March, 379.

Idem (ab.), Roentgen diagnosis of diseases of pancreas, March, 334.

POIRIER and LAMOUREAUX (ab.), Pedunculated cancer of

pylorus, April, 520.

POIROT, MARCEL (ab.), Diagnosis of chronic intestinal amebiasis, March, 376.

POLLOCK, GEORGE A., with GHORMLEY, RALPH K.,

POMEROY, LAWRENCE A. (ab.), Classification of tumors,

POMMERENKE, WESLEY T., with FRAY, WALTER W.,

auth. HENRI (ab.) Differential diagnosis of biliary and

PONS, HERMI (ab.) Differential diagnosis of biliary and urinary calculi, June, 751.

POPMA, ALFRED M., with HUNT, HOWARD B., jt. auth. POPP, L. (ab.), Roentgen therapy of sinusitis, March, 385.

PORCHER, P. (ab.), Inorganic lacunar images of antrum, March,

PORTIS, SIDNEY A., and JAFFÉ, RICHARD H. (ab.), Study of peptic ulcer based on necropsy records, Jan., 120.

POTTER, HOLLIS E. (ab.), Roentgenography of pulmonary tuberculosis, April, 518.

POULAIN, ANDRE (ab.), Vertebral metastasis from carcinoma

POULAIN, ANDRE (ab.), Vertebral metastasis from carcinoma of breast treated by teleroentgentherapy, Feb., 250.
 POWELL, EUGENE V. (ab.), Roentgen therapy of lobar pneumonia, March, 382.
 PRAEGER, WOLFGANG (ab.), Diagnosis of focal (dental) infection, especially by means of roentgenogram, Feb., 255.
 PRIESTLEY, JAMES T., and BRAASCH, WILLIAM F. (ab.), Late results in conservative management of nephrolithiasis, March, 377.

March, 341.

PROPPE, A. (ab.), Technic of roentgen therapy of cusurfaces, March, 384.

PROUTY, JAMES V. (ab.), Regional enteritis, March, 376.

PUSCH, LEWIS C., with LUTZ, J. FLETCHER, jt. auth.

PUTNEY, F. JOHNSON, with CLERF, LOUIS H., jt. auth. (ab.), Technic of roentgen therapy of curved

QUIMBY, EDITH H., Measurement of tissue dosage in radiation therapy. May, 583. UIMBY, EDITH H., MARINELLI, L. D., and FARROW, J. H. (ab.), Study of back-scatter, March, 371.

RAFSKY, HENRY A., with PICKHARDT, OTTO C., jt. auth. RAJEWSKY, B., Researches in problem of radium poisoning and tolerance dose of radium, Jan., 57.

RAMADOUT, M., with CHENE, P., jt. auth. RAWLINS, A. G. (ab.), Osteoma of maxillary sinus, March.

384.
RAY, BRONSON S., with CARTY, JOHN RUSSELL, jt. auth.
RAYNAUD, R., with MARILL, F.G., jt. auth.
RAYNAUD, R., HUGUENIN, A., and TILLIER, H. (ab.).
Cranial and spinal lesions in epileptic: difficulties of inter-

pretation, April, 505.

REDING, R. (ab.), Practical ideas concerning cancerology indispensable to practitioner, Feb., 253.

REEVES, ROBERT J., with HARRISON, EDWARD K., jt.

REILING, VICTOR G., with COLLINS, GEORGE B., jt. auth. REINEKE, HAROLD G. (ab.), Radiation therapy of infections,

March, 376.

REINHARD, M. C., Note on use of clinical dosage meters using thimble ionization chamber, March, 282.

REIS, RALPH A., and MESIROW, SIDNEY D. (ab.), Studies in evaluation of mammography, April, 504.

RENANDER, AXEL (ab.), Roentgenological changes in lungs caused by acetylene gas, Jan., 119.

RENDICH, RICHARD A., and HARRINGTON, LEO A. (ab.), Roentgene kymography of normal colon: defectation in man, March, 371.

HINEHART, D.A. (ab.) Significance of calcifications within

in man, March, 371.

RHINEHART, D. A. (ab.), Significance of calcifications within the lungs, March, 380.

RIDPATH, ROBERT F. (ab.), Chordoma, with report of two cases, March, 387.

RIGLER, LEO G., Density of central shadow in diagnosis of intrathoracic lesions, March, 316.

RIGLER, LEO G., and KOUCKY, RUDOLPH (ab.), Roentgen studies of pathological physiology of bronchial asthma, rune, 738.

RITER, JOSEPH A., with KORNBLUM, KARL, it. auth. RIVERS, ANDREW B., and FERREIRA, ANTONIO E. MENDES (ab.). Incidence and causes of chronic dyspepsia at various ages: analysis of 4,223 cases, Feb., 256.

ROBBINS, O. F., with UDE, WALTER H., it. auth. ROCHE, MAURICE B., with JOSTES, FREDERICK A., jt. auth.

auth.

ROEDERER, C., and CHOFFAT (ab.), Case of vertebral disease, difficult to diagnose, in retrospect, May, 644. disease, difficult to diagnose, in retrospect, May, 644.

ROEDERER, GAUCHER, and JÉSOVER (ab.), Calcification of meniscus and hypertrophic spurring, April, 517. ROGERS, T. H., Effect of cable length on radiation output of shock-proof x-ray tubes, Feb., 202. ROMANO, SAMUEL A., and MCFETRIDGE, ELIZABETH M. (ab.), Limitations and dangers of mammography by con-

trast media, April, 504.

RONNEAUX, G., and WITASSE (ab.), Multiple diverticula of

RONNEAUS, G., and WITASSE (ab.), Multiple diverticula of digestive tract, April, 506.

ROSE, CASSIE BELLE, Diagnosis of unusual calcareous shadows found on x-ray films of abdomen, May, 600.

ROSE, EDWARD, with EDEIKEN, JOSEPH, jt. auth.
ROSENTHAL, NATHAN, and BASSEN, FRANK A. (ab.), Course of polycythemia, April, 502.

ROSS, DUDLEY E. (ab.), Bilateral lobectomy for bronchiecta-

sis, June, 750.
ROTHSTADT, L. E. (ab.), Radiological examination of heart,

ROTHSTADI, L. E. (ab.), Radiana March, 373.

ROUBIER, C. (ab.), "Azotemic lung": radiographic study, May, 634.

ROUX, JEAN-CHARLES, and MIALARET, J. (ab.), Stenoses and false stenoses of intestine in course of grave anemias,

Jan., 11EOPOLD, with WEINSTEIN, M. L., jt. auth.
ROY, J. N., and JUTRAS, ALBERT (ab.), Radiologic aspects of
almost osteoperiostitis associated with hypertrophy of
palpebral tarsi, the skin of face and extremities: a new
syndrome, April, 502.

SABBIONE, CARLO (ab.), Radiological study of spontaneous rib fracture among tuberculous, Jan., 127.

SALZER, HARVEY M. (ab.), Frontal hyperostosis syndrome, April, 503.

SAMMET, JOEL F., Median rhomboid glossitis, Feb., 215.

SAMPSON, D. ALAN (ab.), Lung abscess due to esophageal overflow, May, 634.

SANKEY, R. J., with PATERSON, R. S., jt. auth.

SAUERBRUCH, F., in collaboration with MIDDELDORPF, K. (ab.), Surgical standpoint regarding radiation therapy of malignant tumors, March, 389.

SAYY, P., GIRARD, M., and KHAYAT, Z. (ab.), Multiple ulcers of stomach and duodenum, Jan., 121.

SCADDING, J. G. (ab.), Chronic pneumonias, May, 637.

SCHENCK, SAMUEL GEORGE, with HOWES, WILLIAM E., jt. auth.

jt. auth.
SCHERESCHEWSKY, J. W. (ab.), Prevention and control of cancer: plan for nation-wide organization, Feb., 254.
SCHIEBER, M. (ab.), Schüller-Christian's disease, May, 643.
SCHINZ, HANS R., Passing on presidency (ed.), Jan., 105.
SCHMELA, W. W., with DRUMMOND, D. H., jt. auth.
SCHMIDT, HERBERT W. (ab.), Hysterical dysphagia: report of case Feb. 256.

of case, Feb., 256.

SCHMER, ADOLPH A., and BURMAN, MICHAEL S. (ab.),
Traumatic axial rotation by gear movement of carpal scaphoid and trapezium with subluxation and foreshortening of first metacarpal, March, 390.

SCHNUR, SIDNEY, Diagnostic pneumothorax, Feb., 198.
SCHRIVER, L. H., with MENDELSOHN, S. N., jt. auth.
SCHROEDER, HERMANN (ab.), Effect of ultra-violet rays on vitamin C content of milk, Jan., 130.
SCHÜRCH, O., with UEHLINGER, E., jt. auth.
SCHWARTZ, CHARLES WADSWORTH (ab.), Meningiomas: roentgenological viewpoint, March, 389.
SCHWARTZ, VIRGIL J. (ab.), Phases of bronchoscopy and esophagoscopy of importance in general practice, Feb., 250.
SCOTT, WENDELL G., and MOORE, SHERWOOD (ab.), Roentgen kymographic studies of aneurysms and mediastinal tumors, March, 377.
SEYFRIED, H., with LUTZ, W., jt. auth.
SGALITZER, M. (ab.), Experience with roentgen therapy in epilepsy, April, 505.
SHELLEY, HAROLD J. (ab.), Calcified fecalith in appendix: report of case of acute suppurative appendicitis perforated by calcified fecalith, April, 502.
SIEGLING, JOHN A., and GILLESPIE, JAMES B., Adolescent tibia vara, April, 483.
SIEVERT, ROLF M. (ab.), Dosage units and ionization method, March, 372.
SILBERMANN, JOSEF, Roentgen diagnostic importance of SCHMIER, ADOLPH A., and BURMAN, MICHAEL S. (ab.)

March, 372.

SILBERMANN, JOSEF, Roentgen diagnostic importance of adipose tissue, Jan., 77.

SIMPSON, W. LIKELY (ab.), Laryngocele, May, 632.

SIRE with MARC, H., it. auth.

SITKOWSKI, WACLAW (ab.), Radiological diagnosis of blad-

der tumors, June, 749. SKARBY, HANS-GOSTA (ab.), Diagnosis of extrapleural

abscesses, May, 633.

SLOANE, DAVID, with WOLFORT, BENJAMIN, it. auth.

SMEREKER, H., with WASSERBURGER, K., it. auth.

SMYRNIOTIS, P. C. (ab.), Several cases of radiography after injection of pitressin: experimental proofs, Jan., 122.

SNEAD, L. O., with HODGES, FRED M., it. auth.

SNELL, ALBERT M. (ab.), Problem of gastroduodenal hemorphysics May, 836

SNELL, ALBERT M. (ab.), Problem of gastroduodenal hemorrhage, May, 636.
 SOHVAL, ARTHUR R. (ab.), Hepatic complications in polycythemia vera, April, 511.
 SOILAND, ALBERT, Supervoltage (ed.), June, 742.
 SOLOWAY, HERMAN A. (ab.), Renal tumors: review of 130 cases, March 388.
 SOSMAN, MERRILL C., with MOREY, JOHN B., jt. auth.
 SPANGER, DAVIS (ab.), Radiation therapy of fungus infections, March, 375.
 SPAREES, J. V. (ab.), Asbestosis, June, 747.
 SPRITZER, MARCELI, with BLÜHBAUM, TEOFIL, jt. auth.

SPROUL, E. E. (ab.), Carcinoma and venous thrombosis: frequency of association of carcinoma in body or tail of pancreas with multiple venous thrombosis, June, 752.
STEHR, LUDWIG (ab.), Diagnosis of diseases of accessory nasal sinuses by roentgen study, March, 385.
STEINBERG, CHARLES LEROY (ab.), Massive doses of vitamin D in chronic arthritis: effect on calcium metabolism, March, 386.

STENSTRÖM, BO (ab.), Tumors of upper pole of stomach.

Jan., 129.

STEVENSON, C. A., Use of roentgen therapy in carotid sinus syndrome, Feb., 209.

STEWART, DUDLEY MARCUS (ab.), Roentgenological manifestations in bone syphilis, April, 518.

STEWART, HAROLD J., CRANE, NORMAN F., and DEITRICK, JOHN E. (ab.), Studies of circulation in pericardial effusion, March, 373.

STONE, HARVEY B. (ab.), Rectal symptoms from general suppress standards in the March 242.

surgeon's standpoint, May, 642.

STOUT, ARTHUR PURDY (ab.), Leiomyoma of oral cavity,

March, 387.

March, 387.

STRAUB, M., with den HOED, D., jt. auth.

STRAYER, J. W. (ab.), Tuberculous pneumonia, March, 382.

STRICKLER, ALBERT, with GERSHON-COHEN, J., jt. auth.

SUBY, HOWARD I., with HOWARD, HERBERT H., jt. auth.

SUGJURA, KANEMATSU, and COHEN, INVING, Further study on direct and indirect actions of radiation on malignant

I.—Transplantation of tissue cultures of Mouse Si 180 after exposure to roentgen rays. II.—Cultures

cells: 1.—Transplantation of tissue cultures of Mouse Sar-coma 180 after exposure to roentgen rays. II.—Cultures of tumors irradiated in vivo, Jan., 71.

SUSSMAN, MARCY L., Leopold Jaches, April, 493.

Idem (ab.), Non-putrid pulmonary suppuration, May, 633.

SUSSMAN, MARCY L., and WOODRUFF, MARSTON T. (ab.), Significance of left auricular dilatation in auricular Signification Moreo. 373

(ab.), Significance of left auricular dilatation in auricular fibrillation, March, 373.

SUTHERLAND, CHARLES G. (ab.), Value of x-ray in general practice, May, 646. SUTHERLAND, CHARLES G., with GHORMLEY, RALPH

K., jt. auth.

SUTHERLAND, CHARLES L. (ab.), Factors which determine diagnosis of silicosis, May, 643.

TANGUY, R. O. (ab.), Os centrale of wrist, March, 390.
TANIS, H. E., Jr., with KINGDON, K. H., jt. auth.
TEALL, C. G. (ab.), Deformities of hip joint in children,
March, 374
TERRACOL, J., LAMARQUE, P., and BÉTOULIÈRES,
PIERRE (ab.), Peptic ulcer of esophagus, Jan., 121.
THOMPSON, FRED (ab.), Sacro-iliac tuberculosis, March,

387.
THORAEUS, R. (ab.), Five years' experience of modern shock-proof and ray-proof containers for roentgen therapy tubes, Feb., 247.
TILLIER, H. (ab.), Duodenal anomaly, Feb., 258.
Idem (ab.), Reduction of fractures under roentgenoscopic control: two instructive examples, March, 372.
TILLIER, H., with RAYNAUD, R., jt. auth.
TIMOFÉEFF-RESSOVSKY, N. W., with ZIMMER, K. G., it auth.

it. auth.
TIZON, A., with BRAULT, P., it. auth.
TORTAT with GUILBERT, it. auth.
TOUROFF, ARTHUR S. W., with NEUHOFF, HAROLD,

jt. auth.

TRUEBLOOD, HAROLD C., and LOUGHRIDGE, DONALD
H. (ab.), Scattering and photo-electric absorption of high
voltage x-rays in nitrogen, May, 637.

TURNER, PHILIP (ab.), Acute infective osteomyelitis of

spine, Jan., 124.
TYSON, RALPH M. (ab.), Certain significant aspects of child-hood tuberculosis, Jan., 127.

UDAONDO, C. BONORINO, FINOCHIETTO, E., and MOSTO, D. (ab.), True fibroma of stomach, May, 647.

UDB, WALTER H., URNER, J. A., and ROBBINS, O. F. (ab.), Roentgenologic diagnosis of placenta previa: indirect placentography, June, 749.

UEHLINGER, E., and SCHÜRCH, O. (ab.), Experimental production of sarcoma with radium and mesothorium. March, 383.

ULLMANN, HENRY JOHNSON (ab.), Radiation therapy in acute and chronic inflammatory conditions, May, 631.

UNGERMAN, A. H., VICARY, W. H., and ELDRIDGE, W. W. (ab.), Luetic osteitis simulating malignant disease, April,

(ab.), Luetic osteitis simulating malignant disease, April,

URNER, J. A., with UDE, WALTER H., jt. auth.

VAN HOVE, VAN de PUTTE, with DAELS, F., jt. auth. VASSELLE, P. (ab.). Two cases of gastric cancer: difficult radio-diagnosis of lesions of pyloric antrum, March, 389 VIALLET, CH., with BERNASCONI, FR., jt. auth. VICARY, W. H., with UNGERMAN, A. H., jt. auth. VIEL, A., with BRILLOUET, jt. auth. difficulty of

WALKER, EXUM B., with FINCHER, EDGAR F., jt. auth. WALKER, MAURICE A., and ALLEN, LEWIS G. (ab.), X-ray treatment of erysipeloid, May, 644.
WALTHER, O. (ab.), Results of radiation therapy in sarcomas, May, 643.
WARFIELD, C. H., with HELLWIG, C. A., jt. auth. WASSERBURGER, K., and SMEREKER, H. (ab.), Radium therapy of carcinoma of cervix, Jan., 122.

- WEGELIUS, CARL (ab.), Differences between radiological and anatomical measurements, Jan., 123.
 WEIGEL, LOUIS (ab.), Diagnostic value of pulmonary radiography in primary tuberculous angina: insufficiency of radioscopy, May, 633.
 Idem (ab.), Insufflation of colon as method of diagnosis in gastrocolic fistula following post-operative jejunal peptic other May, 637.

- Jdem (ab.), Institution to color as method to magnitude of gastrocolic fistula following post-operative jejunal peptic ulcer, May, 637.

 WEINSTEIN, M. L., and ROVNER, LEOPOLD (ab.), Geiger-Müller counter: recent instrument in medicine and medical research. April, 501.

 you WEISER, W. (ab.), Fundamental principles of roentgen therapy of inflammatory conditions, Feb., 259.

 Jdem (ab.), Roentgen therapy of epilepsy, April, 505.

 WEISMAN, S. A. (ab.), Correlation of positive reaction to tuberculin and shape of chest, April, 519.

 WEISIG, H. (ab.), Roentgen therapy of diseases of Waldeyer's ring in children, March, 387.

 WESTERMARK, NILS (ab.), Bronchostenosis: roentgenological study, June, 750.

 Jdem (ab.), Roentgen diagnosis of lung embolism, May, 634.

 WESTERMARK, NILS, and FORSSMAN, GÖSTA (ab.), Roentgen diagnosis of tuberculous spondylitis, May, 644.

 WHARTON, LAWRENCE R., GRAY, LAMAN A., and GUILD, ARRIET G. (ab.), Late effects of acute pyelitis in girls, April, 507.
- April, 507.

 WHEELER, DIGBY (ab.), Diverticulum of duodenum, Feb.,
- WILDMAN, STANLEY F. (ab.), Low back pain in relation to
- willemin, F., and CANTAGRILL, M. (ab.), Anomalies of vertebral articular apophyses, April, 517.

- WILSON, ROBERT R., and KAMEN, MARTIN D. (ab.), Internal targets in cyclotron, June, 747.
 WINDEYER, B. (ab.), Radiotherapy in non-malignant uterine hemorrhage, May, 631.
 WINSBURY-WHITE, H. P. (ab.), Brief review of 426 consecutive cases of urinary calculus, Feb., 251.
 WISHART, D. E. S. (ab.), Some observations on petrous tip suppuration: report of three cases, Feb., 256.
 WITASSE with RONNEAUX, G., it. auth.
 WOLFORT, BENJAMIN, and SLOANE, DAVID (ab.), Adamantinoma of tibia, March, 389.
 WOLMAN, IRVING J., with BROMER, RALPH S., jt. auth.
 WOOD, FRANKLIN G. (ab.), Value of radiology in elucidation of hemoptysis, March, 378.
 WOODRUFF, MARSTON T., with SUSSMAN, MARCY L., jt. auth.

- auth.

 ZACHRISSON, CARL-GUSTAV (ab.), Comparative study of radiograms and anatomical sections of temporal bone, Jan., 123.

 ZIMMER (ab.), New Siemens body cavity x-ray tube with pointed anode, Feb., 247.

 ZIMMER, K. G., (ab.), Dosimetric and radiobiologic experiments with fast neutrons—1, April, 504.

 ZIMMER, K. G., and TIMOFÉEFF-RESSOVSKY, N. W. (ab.), Dosimetric and radiobiologic experiments with fast neutrons—11, April, 504.

 ZIMMER, T. (ab.), Distribution of dose in near-distance x-ray tubes and body cavity tubes of various constructions, June, 747.

 ZINTHEO, CLARENCE J., Jr., Ceiling-mounted tube rail for general diagnostic x-ray laboratory, April, 477.

 ZOLLNER, S., with BARTSCH, H., jt. auth.

 ZORZOLI, GIUSEPPE (ab.), Bronchographic observation of re-expanded lungs following artificial pneumothorax, May, 638.